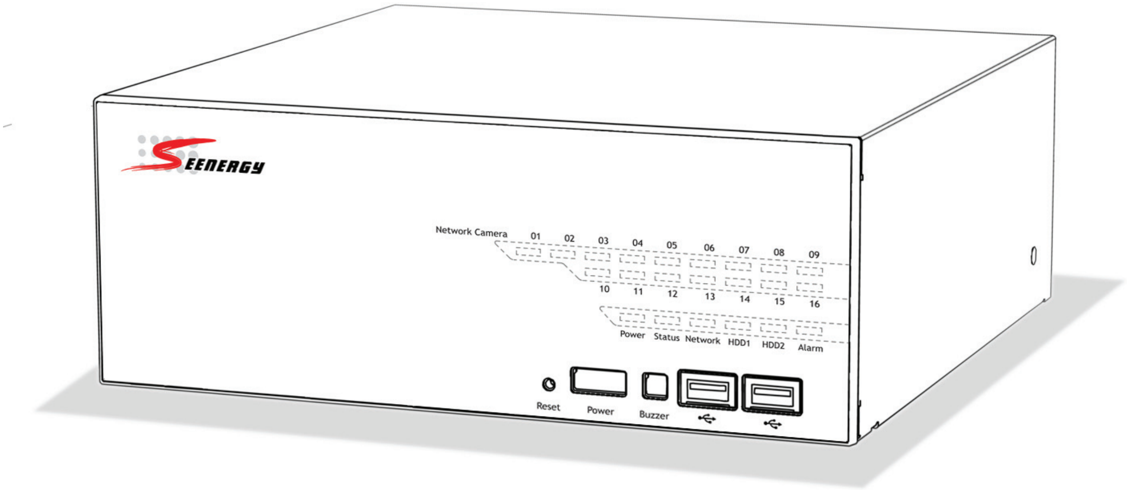
Network Video Recorder

User’s Manual v1.5

Model: **SVR-104/108/SVR-116**


SEENERGY
Network Camera
01
02
03
04
05
06
07
08
09
10
11
12
13
14
15
16
Power
Status
Network
HDD1
HDD2
Alarm
Reset
Power
Buzzer

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All names of people and organizations used in this documentís examples are fictitious. Any resemblance to any actual organization or person, living or dead, is purely coincidental and unintended.

System Requirements

The following are minimum system requirements for the system to operate Embedded Network Video Recorder (ENVR):

Operating System

Microsoft® Windows® 2000 Professional, Windows® XP Professional (32 bit) or Windows® Server 2003 (32 bit)

Browser

Microsoft Internet Explorer 6 or above

CPU

Minimum Intel® Pentium® 4 2.4 GHz or higher (Dual Core is recommended)

RAM

Minimum 1 GB of RAM, 2GB or above is recommended

Network

Minimum 10/100 Ethernet (Gigabit Ethernet is recommended)

Graphics Adapter

AGP or PCI-Express, minimum 1024×768, 16 bit colors.

(We highly recommend to work above the 1024 x 768 resolution to get the full experience of the software)

- ***Make sure your display DPI setting is set to default at 96DPI***
- ***To set DPI value, right-click on desktop, choose "Settings" tab >> "Advanced" >> "General"***

Contents Inside the Installation CD

- Adobe Acrobat Reader
- Smart Device Search Utility
- Pi-Vu Central Basic CMS software
- NVR Media Player
- User's Manual
- Quick installation Guide
- Datasheet

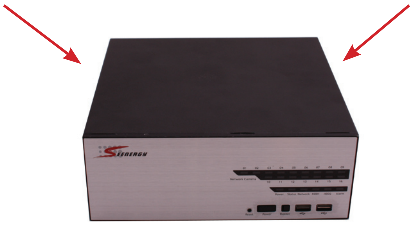
Product Description

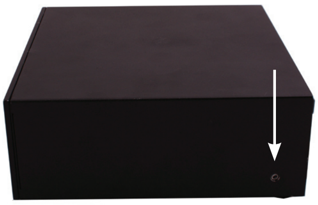
The Embedded Network Video Recorder is designed for use within a surveillance system, and performs recordings and playbacks pictures from network cameras in the system. It is a recording device using a hard disk drive to record camera pictures instead of using video tapes so that pictures recorded by repeated overwriting will not experience deterioration of the recorded picture quality. Up to 4 (for SVR-104) or 8 (for SVR-108) or 16 (for SVR-116) cameras can be connected via a network and it is possible to record their camera pictures. It is possible to perform the settings or operate the NVR using a web browser installed on a PC connected to a network, or remote controller. Recorded video can be played back from remote site by a PC. Up to 4 PCs (web browsers) can access this unit concurrently and it is possible to perform the settings and operate this unit. The NVR is compatible with most major brand cameras and its ability to automatically search and fnd the available cameras on the network can greatly reduce the user effort when expanding the system.

- **Advance PTZ Control**
- **Various Types Event Alerts**
- **Pure Web Based Administration**
- **Linux-embedded Operating System**
- **Export Recorded Videos to AVI**
- **Compatible with Major Brand Cameras**
- **High Quality Live/Playback Videos**
- **Smart Camera Search**

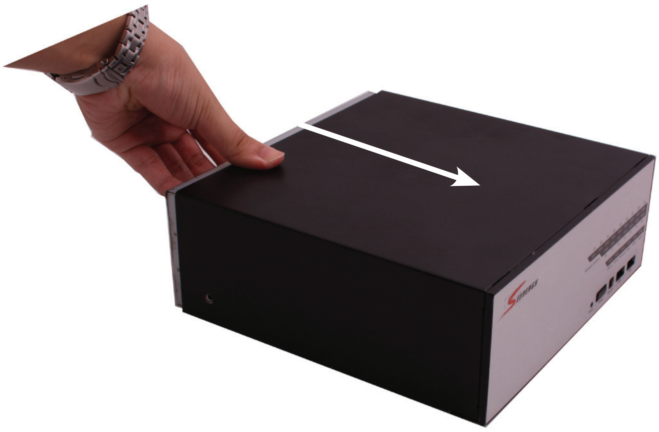
Install Hard Disk

Start by removing the screws on the side:

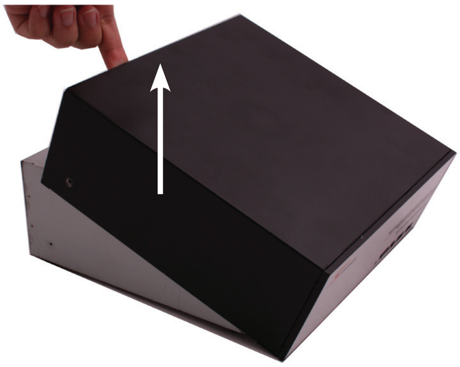




Push the top housing forward

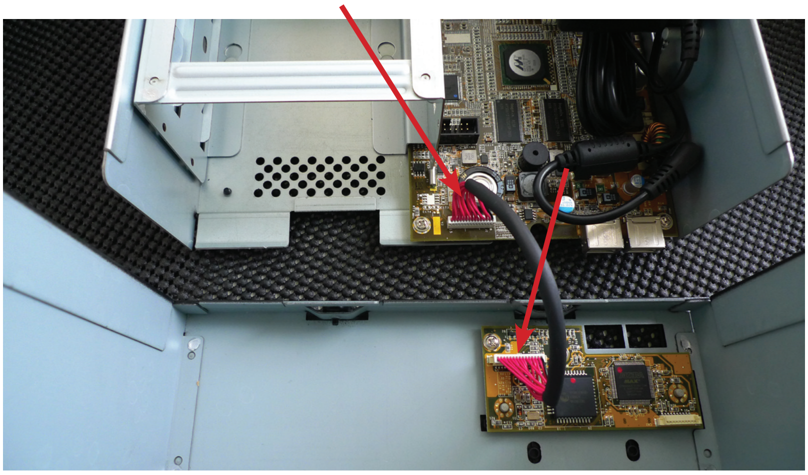


Then lift it up

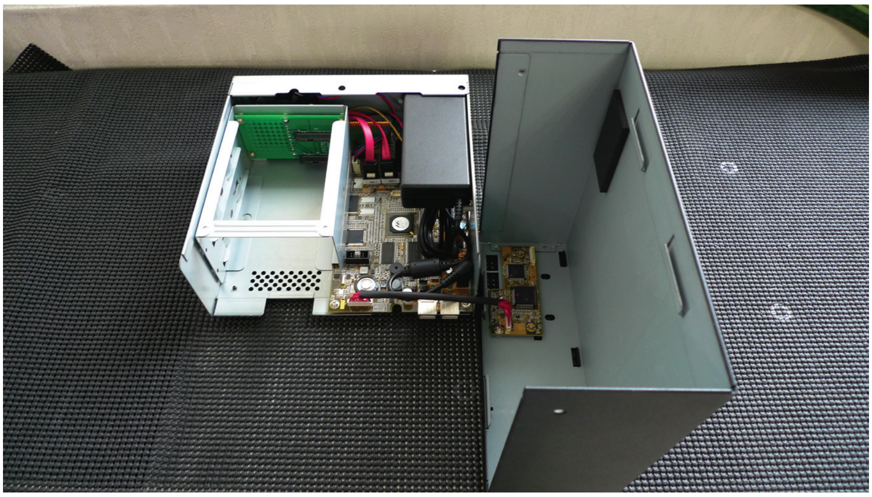


- *The NVR supports SATA I or SATA II hard disks*
- *The NVR supports max. 1.5TB per hard disk and it supports total of 2 hard disks (3TB)*

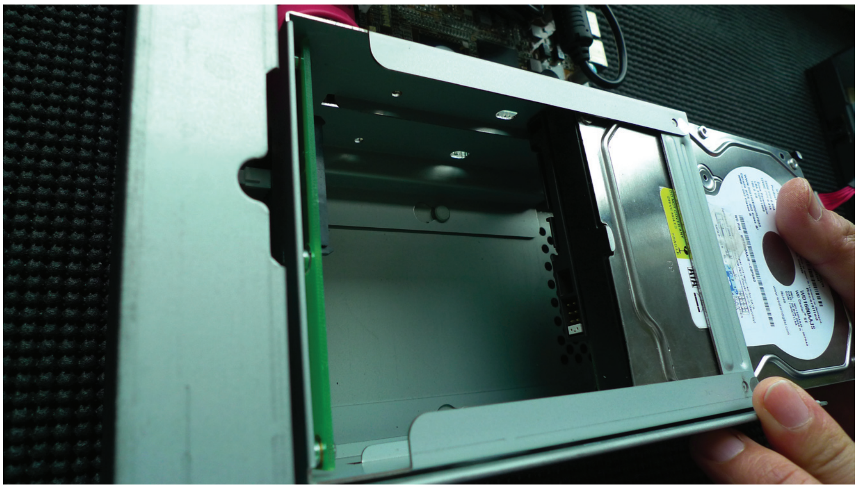
There is a cable connected between the fron LED board and the main board



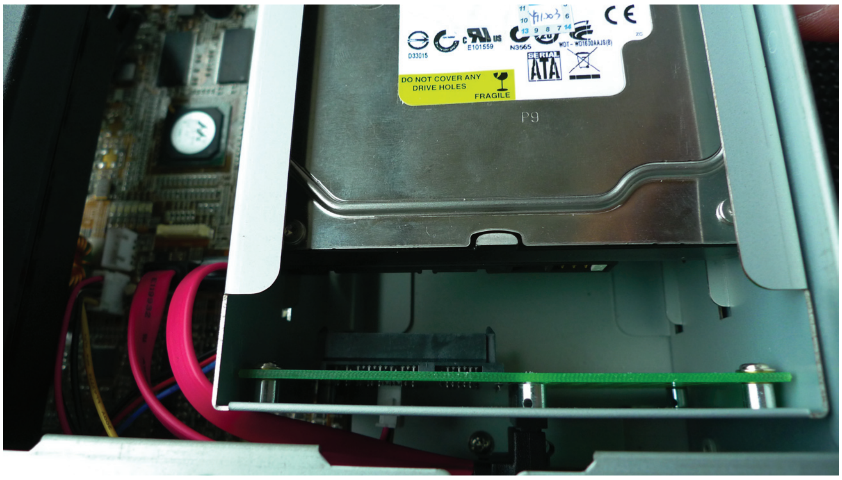
You can remove it from the main board or simply put the top housing on the side like shown below:



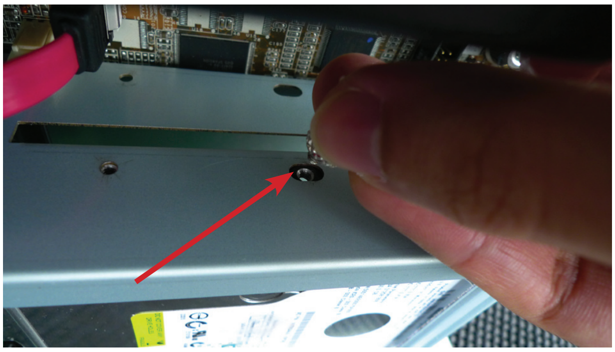
Next, slide the hard drive into the tray:

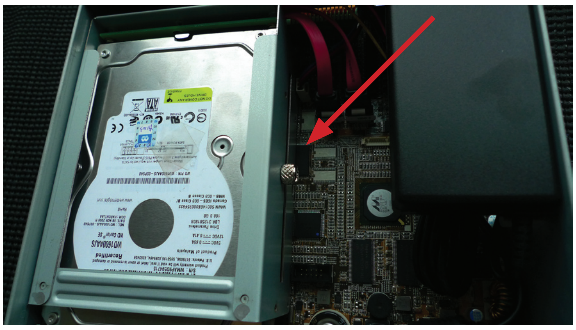


Make sure the SATA connectors are aligned with each other correctly



Secure the hard drive with the tool-less screw provided in the box

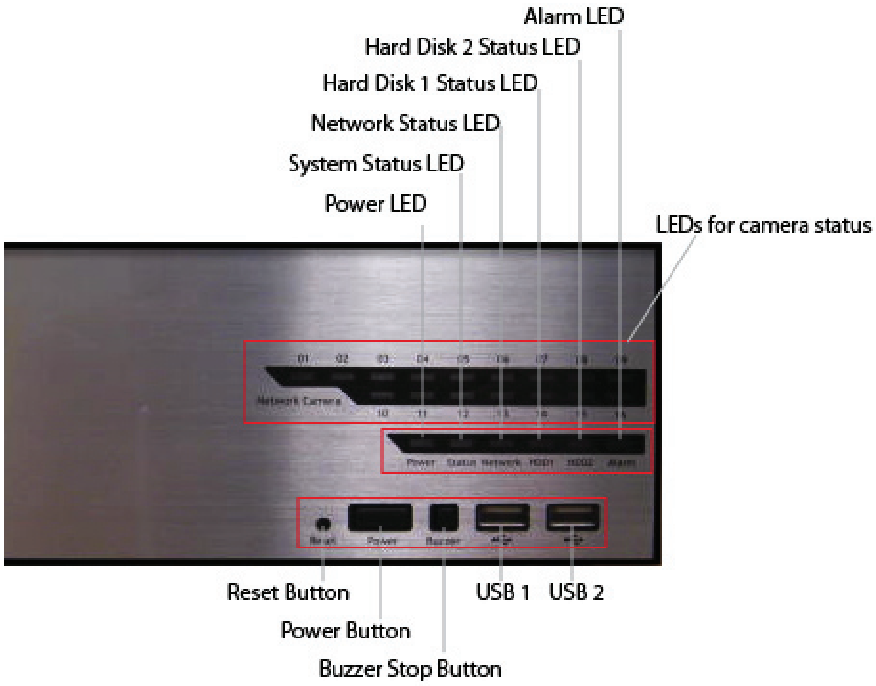




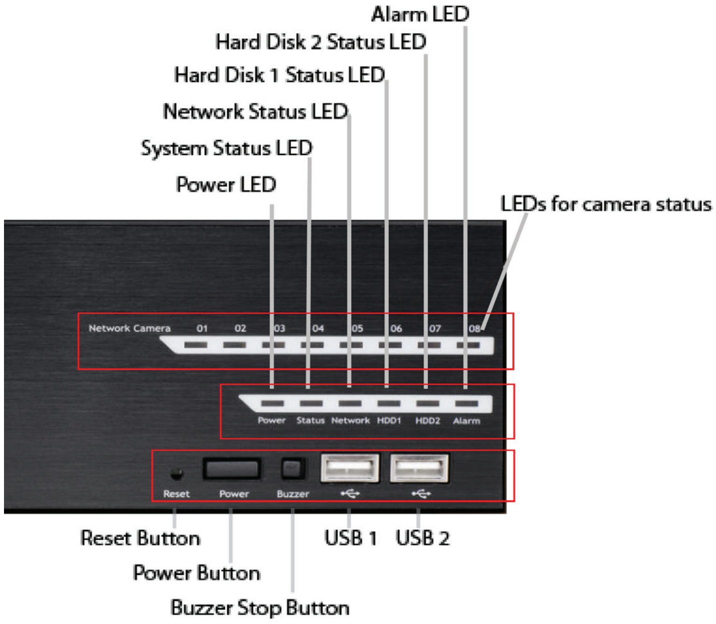
Place the top housing back and secure it with the bottom housing

Hardware Illustration (Front)

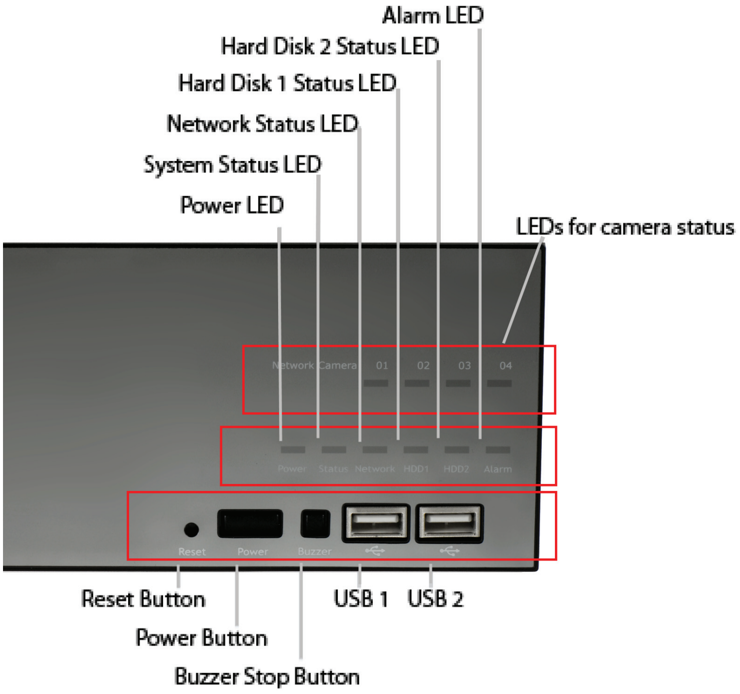
16 Channel


Alarm LED
Hard Disk 2 Status LED
Hard Disk 1 Status LED
Network Status LED
System Status LED
Power LED
LEDs for camera status
Reset Button
Power Button
Buzzer Stop Button
USB 1
USB 2

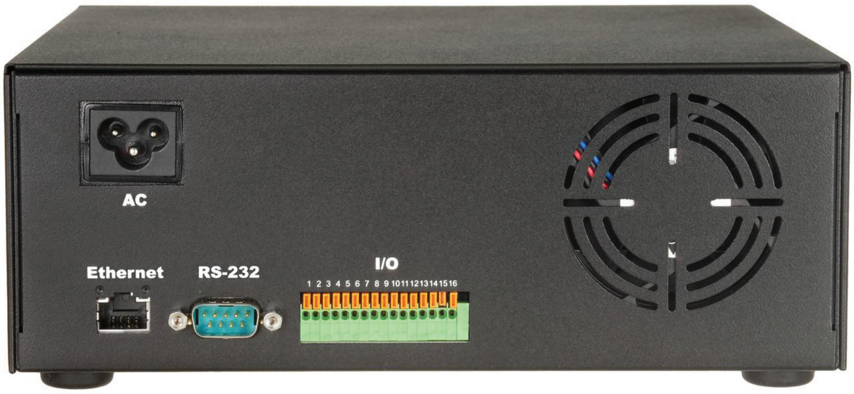
8 Channel

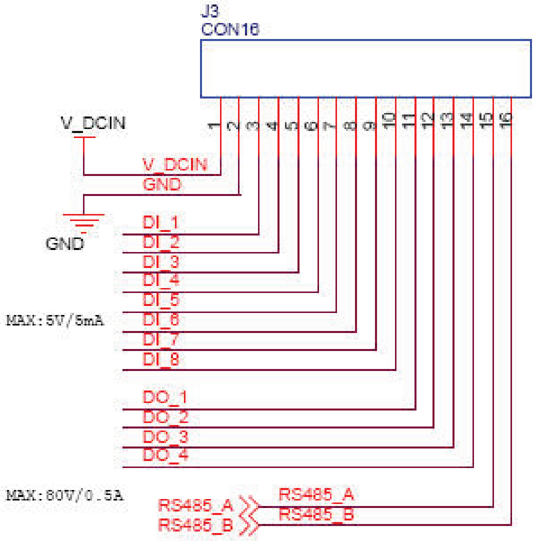

Alarm LED
Hard Disk 2 Status LED
Hard Disk 1 Status LED
Network Status LED
System Status LED
Power LED
LEDs for camera status
Network Camera
01
02
03
04
05
06
07
08
Power
Status
Network
HDD1
HDD2
Alarm
Reset
Power
Buzzer
Reset Button
Power Button
Buzzer Stop Button
USB 1
USB 2

4 Channel


Alarm LED
Hard Disk 2 Status LED
Hard Disk 1 Status LED
Network Status LED
System Status LED
Power LED
LEDs for camera status
Network Camera
01
02
03
04
Power
Status
Network
HDD1
HDD2
Alarm
Reset
Power
Buzzer
Reset Button
Power Button
Buzzer Stop Button
USB 1
USB 2

I/O Ports and RS-485 (Rear)

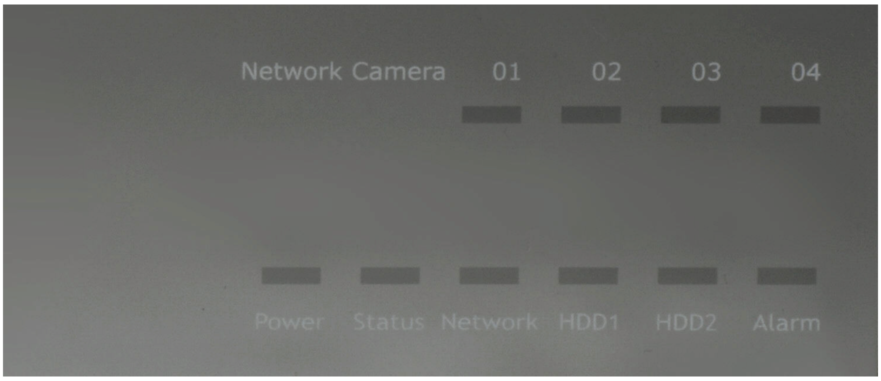

AC
Ethernet
RS-232
I/O
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16


J3
CON16
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
V_DCIN
V_DCIN
GND
GND
DI_1
DI_2
DI_3
DI_4
DI_5
DI_6
DI_7
DI_8
MAX:5V/5mA
DO_1
DO_2
DO_3
DO_4
MAX:80V/0.5A
RS485_A
RS485_B
RS485_A
RS485_B

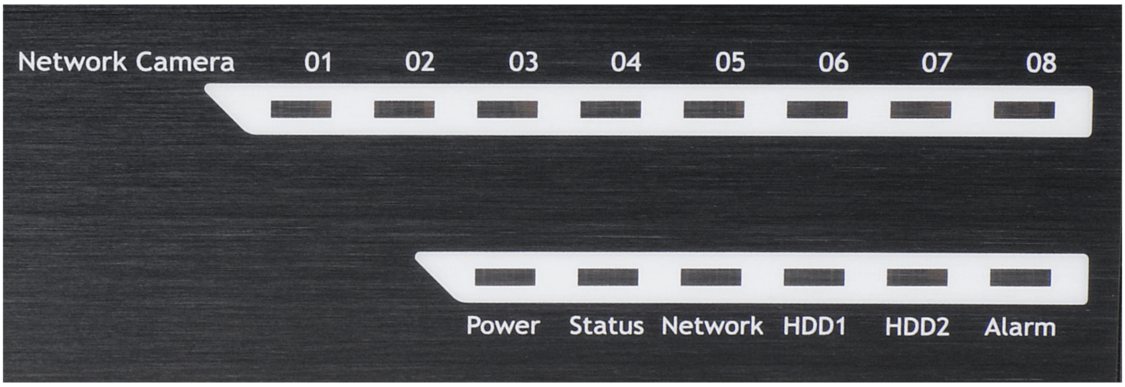
Pin	Signal
1	DCIN
2	GND
3~10	Alarm input
11	Out1
12	Out2
13	Out3
14	Out4
15	RS485+
16	RS485-

LEDs Definition

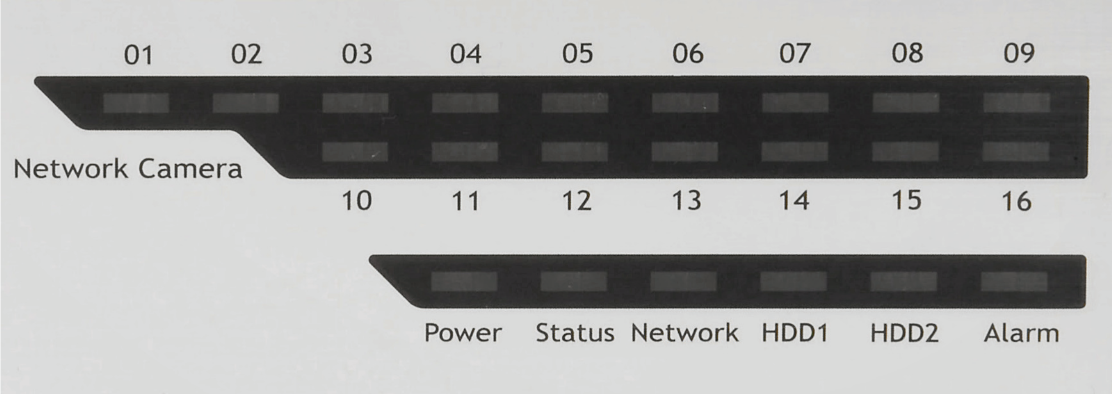
4 Channel


Network Camera
01
02
03
04
Power
Status
Network
HDD1
HDD2
Alarm

8 Channel


Network Camera
01
02
03
04
05
06
07
08
Power
Status
Network
HDD1
HDD2
Alarm

16 Channel


01
02
03
04
05
06
07
08
09
Network Camera
10
11
12
13
14
15
16
Power
Status
Network
HDD1
HDD2
Alarm

LEDs Definition

HDD x 2	Green	Solid green when the hard disk is mounted and being accessed
	Red	Solid red for disk fail
	Amber	Solid amber when disk is full Blinking when recycling
Network	Amber	Solid amber for activity on a 1G bps network.
	Green	Solid green for activity on a 10/100 Mbps network.
Status	Amber	Blinking during firmware upgrade
	Green	Shows solid green for normal operation. Blinking green when firmware upgrade is done
	Red	Flashes red for failed firmware upgrade.
Power	Green	Normal operation
	Red	System off (power adapter remains plugged in)
	Amber	Blinking amber indicating device is initializing
Alarm	Red	Blinking when an alarm occurs
	None	When alarm is reset

Camera LED	Green	Solid green, live connected with no event or recording activity
	Amber	Blinking amber, manual or event recording is being performed
	Amber	Solid amber, schedule or continuous recording is being performed
	Red	Recording is set but no video from camera

Connect to the NVR

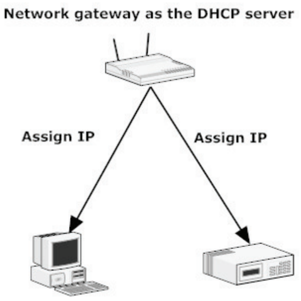
There are various ways you can connect to the NVR and below are the suggested methods for different network setup:

- The NVR is placed in a network with a DHCP server: Connect to the NVR by using **"SEEnergy Device Search" Utility**
- The NVR is placed in a network without DHCP server (or you are connecting to it directly): **Access NVR with its default IP**

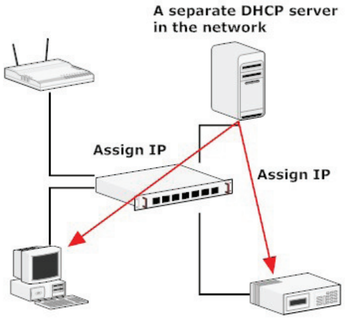
Use SEEnergy Device Search Utility

If the NVR is placed in a corporate network or a local area network where a DHCP server is already presented, install the "SEEnergy Device Search" utility on the CD from a computer that is on the same network and locate the NVR with its IP address that is assigned by the top-level DHCP server.

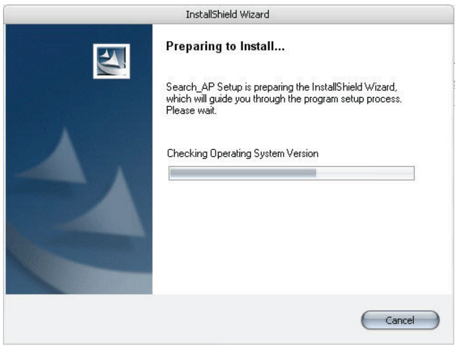
1.


Network gateway as the DHCP server
Assign IP
Assign IP

2.


A separate DHCP server in the network
Assign IP
Assign IP

To begin, launch the "SEEnergy Deivce Search" utility from the CD and proceed with the installation:

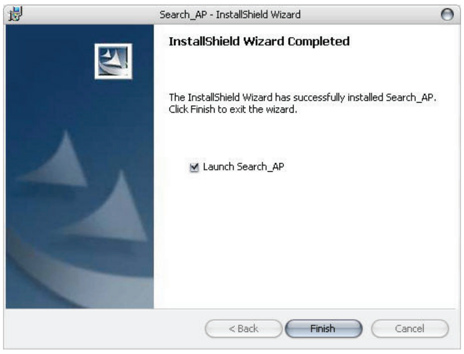

InstallShield Wizard
Cancel

Preparing to Install...

Search_AP Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.

Checking Operating System Version

Once the installation is complete, check the "Launch the Search AP" option and click "Finish":



Search_AP - InstallShield Wizard

InstallShield Wizard Completed

The InstallShield Wizard has successfully installed Search_AP. Click Finish to exit the wizard.

☑ Launch Search_AP

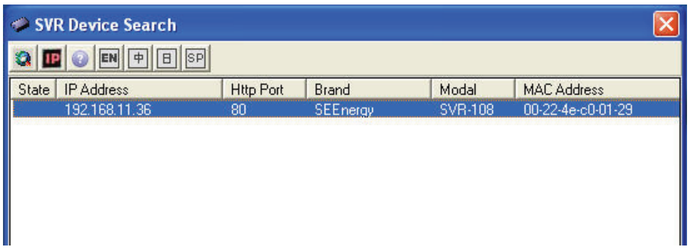
< Back
Finish
Cancel

The search should start automatically and its status should be displayed:

Network Communication

The NVR should be located and its IP address should be displayed:

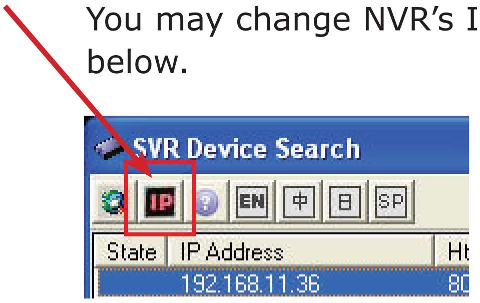
Double-click on it and the program should automatically access the NVR's web administration page from your default browser



SVR Device Search

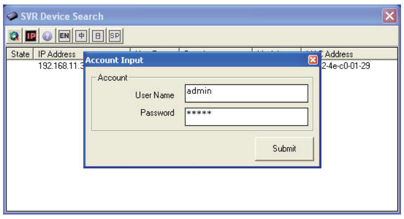
State	IP Address	Http Port	Brand	Modal	MAC Address
	192.168.11.36	80	SEEnergy	SVR-108	00-22-4e-c0-01-29

You may change NVR's IP address by click on the button highlighted below.



SVR Device Search
IP
EN
中
日
SP
State
IP Address
Ht
192.168.11.36
80

You will be prompted for the NVR's login information before proceeding to change device's IP address.


SVR Device Search
IP
EN
中
日
SP
State
IP Address
MAC Address
Account Input
Submit

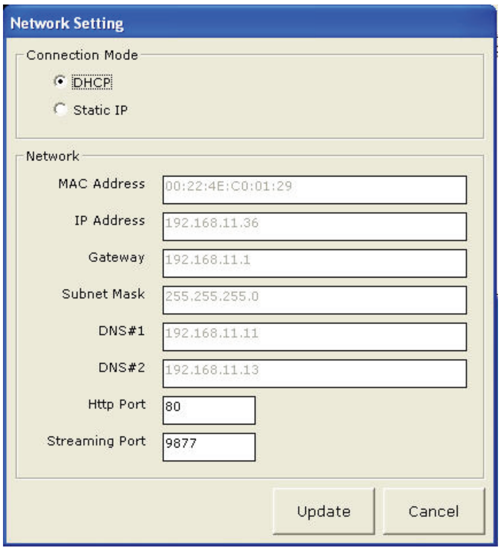
192.168.11.3

2-4e-c0-01-29

Account

User Name: admin

Password: *****


Network Setting
Update
Cancel

Connection Mode

● DHCP

○ Static IP

Network

MAC Address: 00:22:4E:C0:01:29

IP Address: 192.168.11.36

Gateway: 192.168.11.1

Subnet Mask: 255.255.255.0

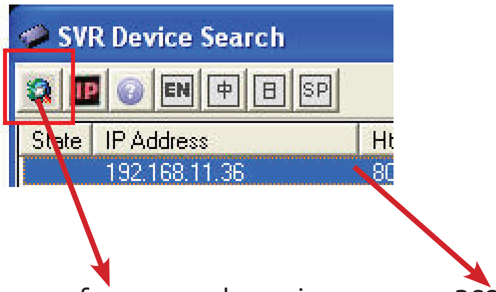
DNS#1: 192.168.11.11

DNS#2: 192.168.11.13

Http Port: 80

Streaming Port: 9877

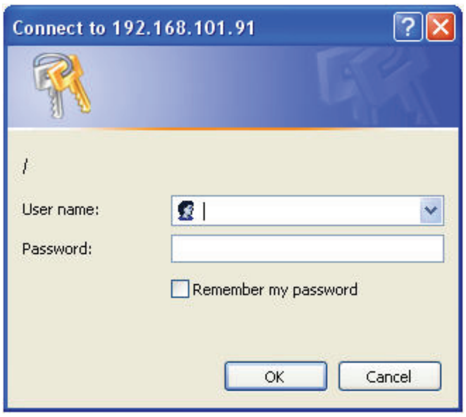
You may click on the button highlighted below to perform search again. Or double-click on any of the search results to access NVR's web administration page


SVR Device Search
IP
EN
中
日
SP
State
IP Address
Ht
192.168.11.36
80

perform search again

access NVR's web administration page

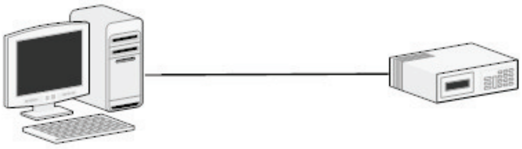
You should be prompted for the NVR's username and password. Enter its default username "**admin**" and password "**admin**" and then click"OK" to enter the system


Connect to 192.168.101.91
/
User name:
Password:
☐ Remember my password
OK
Cancel

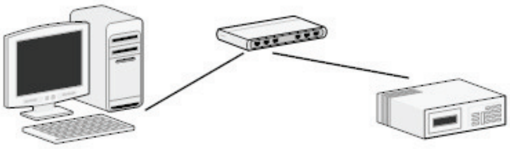
Access NVR with its default IP address

The NVR comes with a pre-configured static IP "**192.168.101.50**". However, it is only used when there is no DHCP server presented in the network. The NVR will turn on its DHCP server function and act as the DHCP server in the network. To connect to the NVR, use a PC that is on the same network over a switch or hub, or connect the PC directly to the NVR using a crossover CAT5 Ethernet cable.

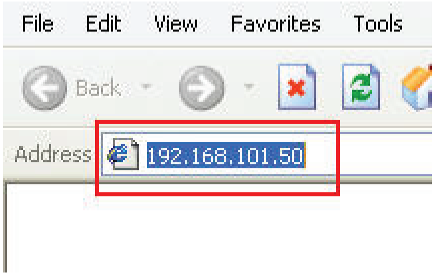
1.



2.

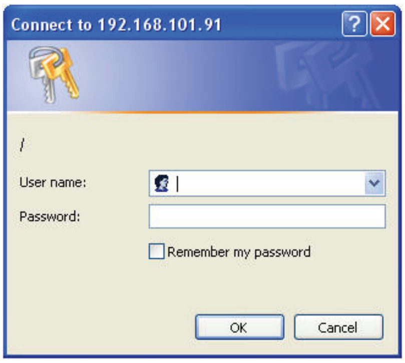


The PC that is connected directly to the NVR (or within the same local area network) should receive an IP from it. Simply access the NVR from your web browser with its IP address


File
Edit
View
Favorites
Tools
Back
Address

192.168.101.50

Again, you should be prompted for the username and password. Enter its default username "**admin**" and password "**admin**" and then click"OK" to enter the system



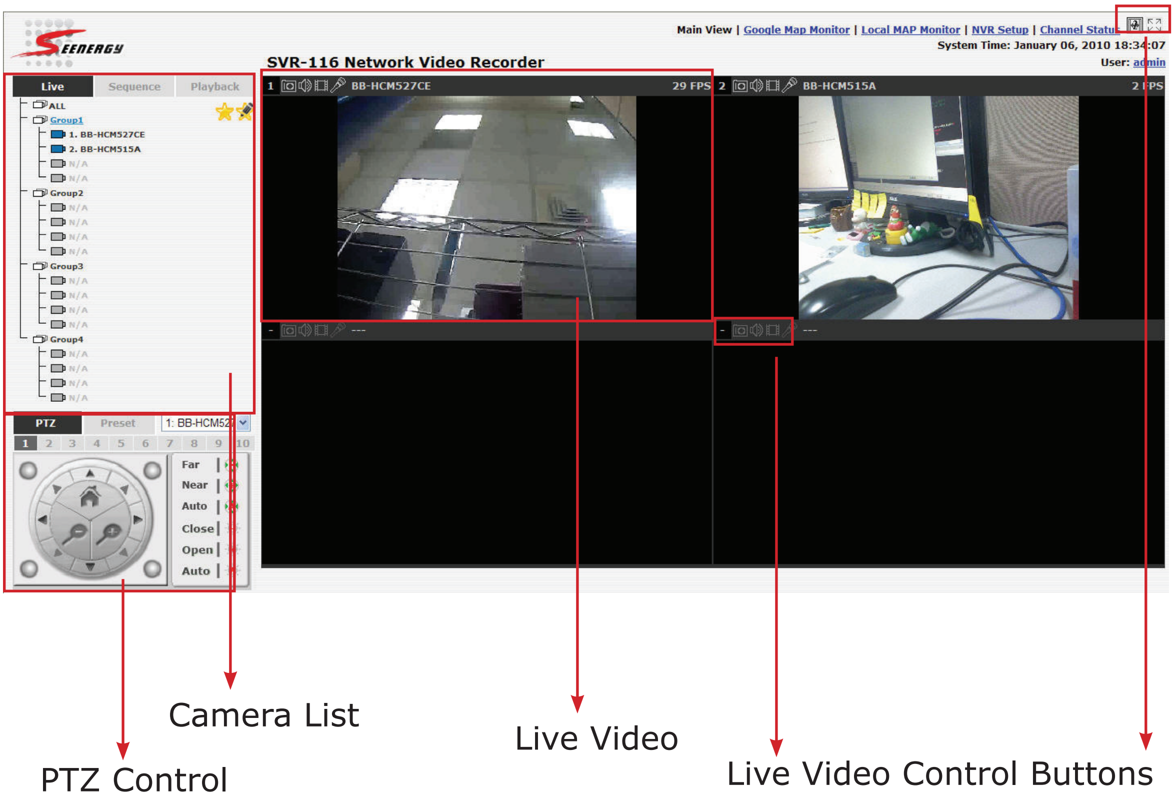
Connect to 192.168.101.91

/

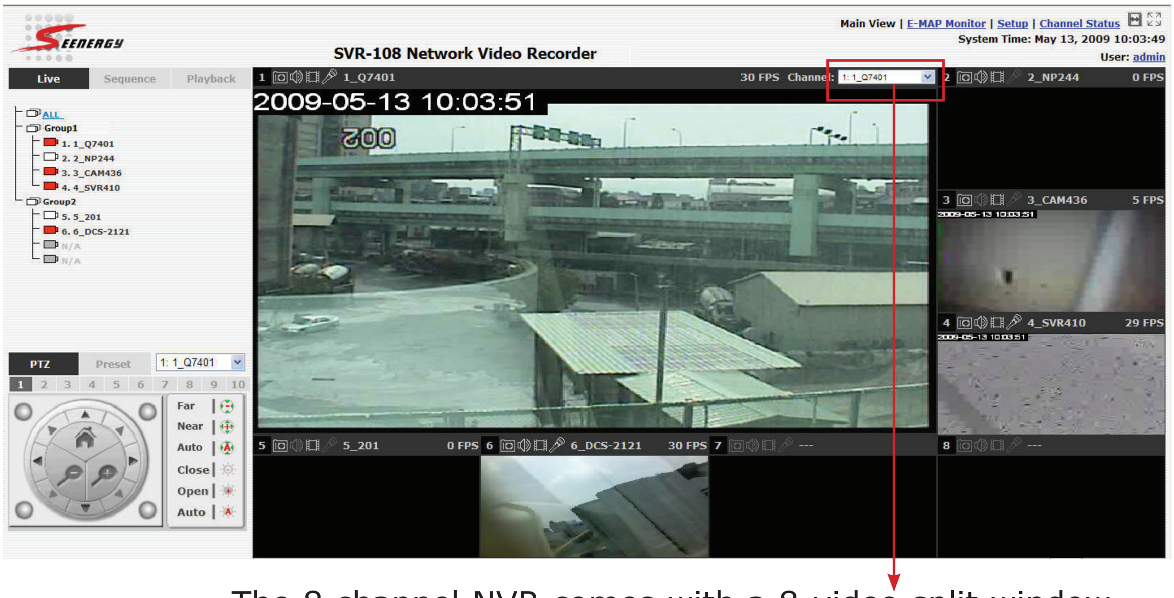
User name:
Password:
☐ Remember my password
OK
Cancel

1. Live View

SVR-116

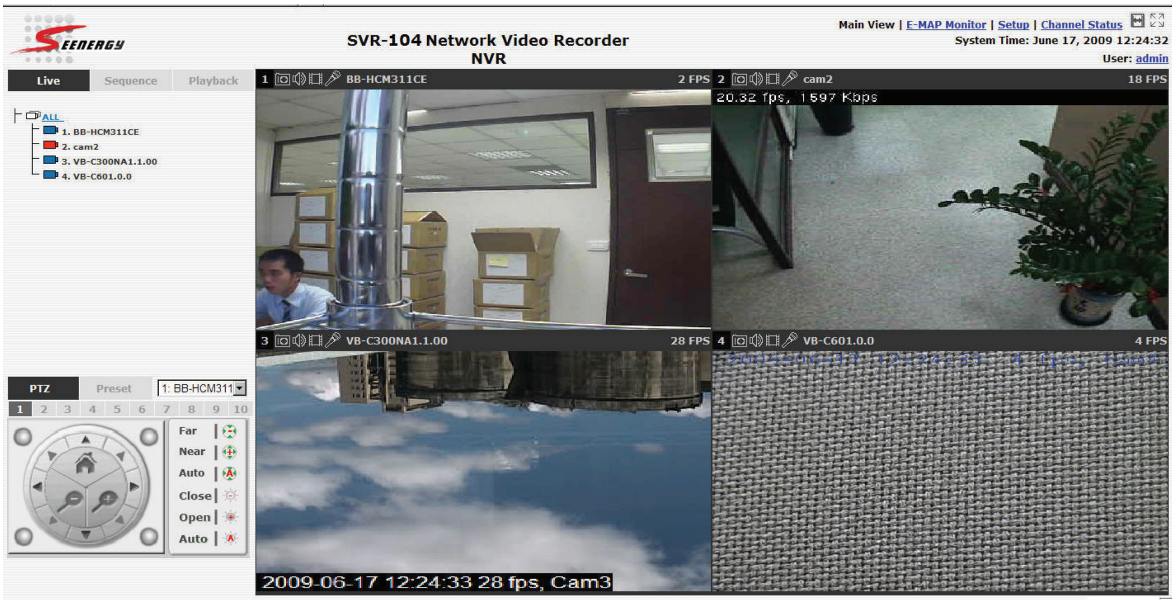

Main View | Google Map Monitor | Local MAP Monitor | NVR Setup | Channel Status
System Time: January 06, 2010 18:34:07
User: admin
SVR-116 Network Video Recorder
Live
Sequence
Playback
ALL
Group1
1. BB-HCM527CE
2. BB-HCM515A
Group2
Group3
Group4
1 BB-HCM527CE 29 FPS
2 BB-HCM515A
PTZ
Preset
Far
Near
Auto
Close
Open
Auto
Camera List
PTZ Control
Live Video
Live Video Control Buttons

SVR-108


Main View | E-MAP Monitor | Setup | Channel Status
System Time: May 13, 2009 10:03:49
User: admin
SVR-108 Network Video Recorder
Live
Sequence
Playback
ALL
Group1
1. 1_Q7401
2. 2_NP244
3. 3_CAM436
4. 4_SVR410
Group2
5. 5_201
6. 6_DCS-2121
1 1_Q7401 30 FPS Channel: 1: 1_Q7401
2 2_NP244 0 FPS
3 3_CAM436 5 FPS
4 4_SVR410 29 FPS
5 5_201 0 FPS
6 6_DCS-2121 30 FPS
7 ---
8 ---
2009-05-13 10:03:51
PTZ
Preset
Far
Near
Auto
Close
Open
Auto

The 8 channel NVR comes with a 8-video split window view with one video displays on a larger window. Select a channel from the drop-down menu to display its video on the larger split window. You can also double-click on any of the smaller one to display its video to the larger window.

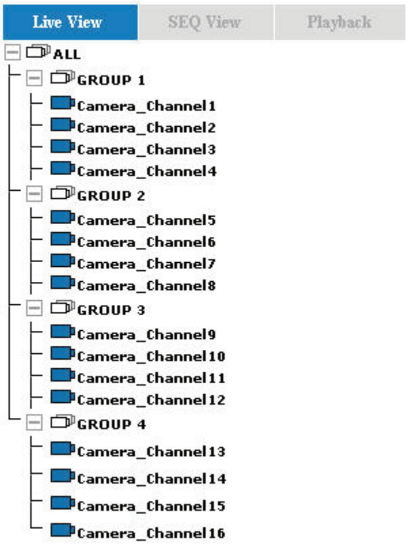
SVR-104


SEENERGY
SVR-104 Network Video Recorder
NVR
Main View | E-MAP Monitor | Setup | Channel Status
System Time: June 17, 2009 12:24:32
User: admin
Live
Sequence
Playback
ALL
1. BB-HCM311CE
2. cam2
3. VB-C300NA1.1.00
4. VB-C601.0.0
1 BB-HCM311CE 2 FPS
2 cam2 18 FPS
20.32 fps, 1597 Kbps
3 VB-C300NA1.1.00 28 FPS
4 VB-C601.0.0 4 FPS
2009-06-17 12:24:33 28 fps, Cam3
PTZ
Preset
1: BB-HCM311
1 2 3 4 5 6 7 8 9 10
Far
Near
Auto
Close
Open
Auto

The "Live View" page provides the following functions:

- Retrieve camera's video stream
- Retrieve camera's status
- Perform Live Sequence Viewing
- PTZ Control
- Perform PTZ Preset Sequence viewing
- Perform manual recording
- Take snapshot
- Receive audio of a video stream
- Send audio
- Control "Buzzer"
- Change web UI display language

1.1 Retrieve camera's video stream


Live View
SEQ View
Playback
ALL
GROUP 1
Camera_Channel1
Camera_Channel2
Camera_Channel3
Camera_Channel4
GROUP 2
Camera_Channel5
Camera_Channel6
Camera_Channel7
Camera_Channel8
GROUP 3
Camera_Channel9
Camera_Channel10
Camera_Channel11
Camera_Channel12
GROUP 4
Camera_Channel13
Camera_Channel14
Camera_Channel15
Camera_Channel16

The camera list is expanded and displayed on the Live View page.

- Click "All" to display videos in the 8-video mode (SVR-108) or 16-video mode (SVR-116)
- Click on a "Group" (ex. Group 1) to display videos from cameras under that group in quad view
- Click on any camera to display video in single-view mode

1.2 Retrieve camera's status

The camera list can show each camera's current status. Each status is represented with different colors and their meanings are explained on the left

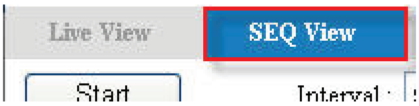
🟦 Camera is connected

⬜ Camera is NOT connected

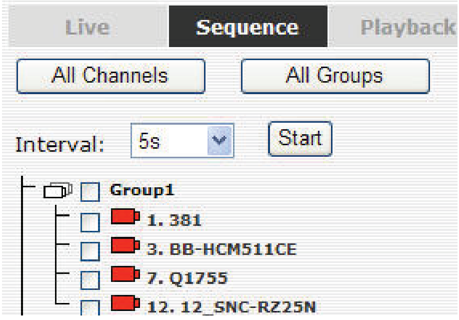
🟥 Camera is current performing recording

1.3 Perform Sequence Viewing

Sequence view is a function that allows you to view multiple video streams from certain cameras in sequence automatically without having to select them one by one.
To perform sequence view, select "SEQ View" from the upper-left hand corner

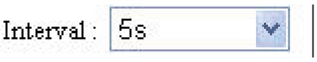

Live View
SEQ View
Start
Interval :

Next, select one or more camera(s) or camera group(s) for sequence viewing


Live
Sequence
Playback
All Channels
All Groups
Start
Group1
1. 381
3. BB-HCM511CE
7. Q1755
12. 12_SNC-RZ25N

Interval: 5s

Then select dwell interval from the drop-down menu



Interval : 5s

Finally click "Start" to start sequence viewing

** Click "All Channels" to quickly select all available channels and start sequence view in single-view mode.*

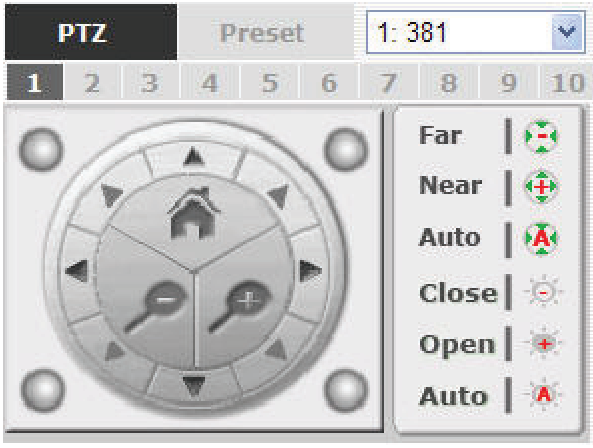
Click "All Groups" to quick select all available groups and start sequence view in quad-view mode

Or simply select the desired channels and press "Start" to start sequence view

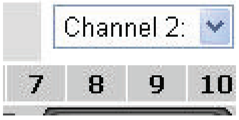
The "All Group" button is not available in 4Ch NVR as it only has one group

1.4 PTZ Control

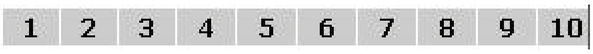
PTZ control provides functions to pan, tilt, zoom a PTZ camera as well as the ability to adjust camera focus and iris


PTZ
Preset
1: 381
1
2
3
4
5
6
7
8
9
10
Far
Near
Auto
Close
Open
Auto

Camera(s) that are currently being selected for live viewing will be listed in the PTZ drop-down menu. Simply select a camera then use the PTZ control panel to control the camera


Channel 2:
7
8
9
10

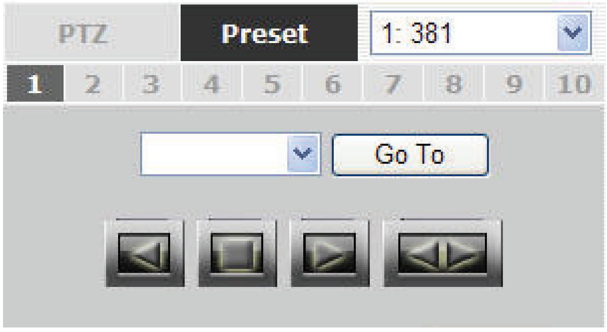
The bar shown below allows you to control the pan/tilt speed


1
2
3
4
5
6
7
8
9
10

1.5 Perform PTZ Preset Viewing

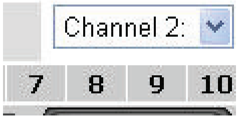
There are three functions provided in the “Preset” section:

- Perform preset point viewing of a particular camera
- Auto pan a particular camera
- Perform preset point sequence viewing

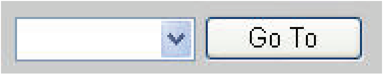


Preset Point Viewing

Start by selecting a PTZ camera from the drop-down list:



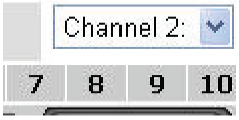
Its available PTZ preset points will be listed in the drop-down list shown below:



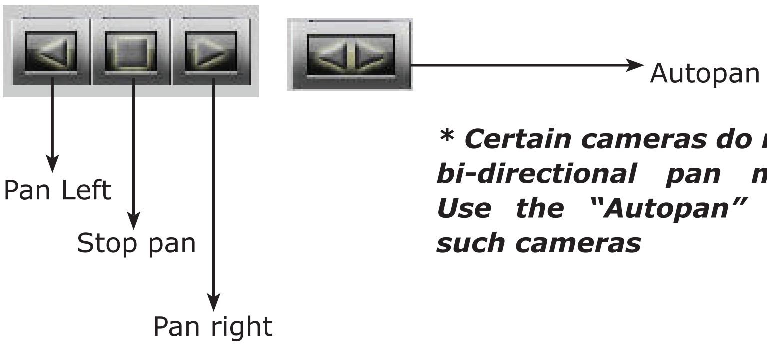
Select a preset position from the drop-down list and click “Go to” to move the live view to that position

Auto Pan Viewing

Start by selecting a PTZ camera from the drop-down list:


Channel 2:
7
8
9
10

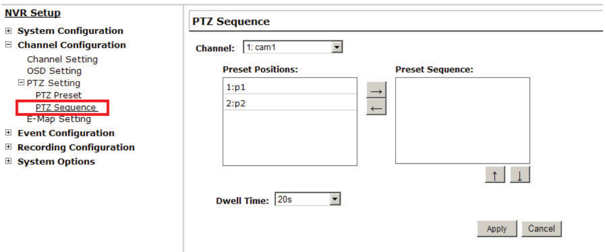
Use the Auto Pan control buttons to pan right, left and stop auto pan


Autopan
Pan Left
Stop pan
Pan right

**** Certain cameras do not support bi-directional pan movements. Use the "Autopan" button for such cameras***

Preset Point Sequence Viewing

This function allows you to view multiple preset points from a video of a camera without having to select them one by one. Once you have defined the prefered preset points in "**Channel Configurations**" >> **"PTZ Setting"** >> "**PTZ Sequence**" under the "**Setup**" menu, click "Start" in the lower-left hand corner in Live View under "Preset" and the recorder will begin to display videos from those preset points in sequence automatically until you click "Stop"

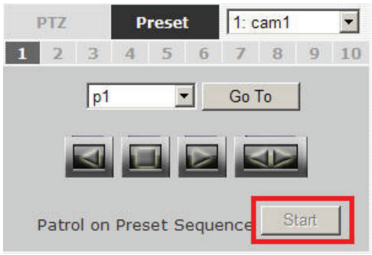

NVR Setup
System Configuration
Channel Configuration
Channel Setting
OSD Setting
PTZ Setting
PTZ Preset
PTZ Sequence
E-Map Setting
Event Configuration
Recording Configuration
System Options
PTZ Sequence
Preset Positions:
Preset Sequence:
Apply
Cancel

Channel: 1: cam1

1:p1
2:p2

Dwell Time: 20s

"In the Setup page"


PTZ
Preset
1
2
3
4
5
6
7
8
9
10
Go To
Start

1: cam1

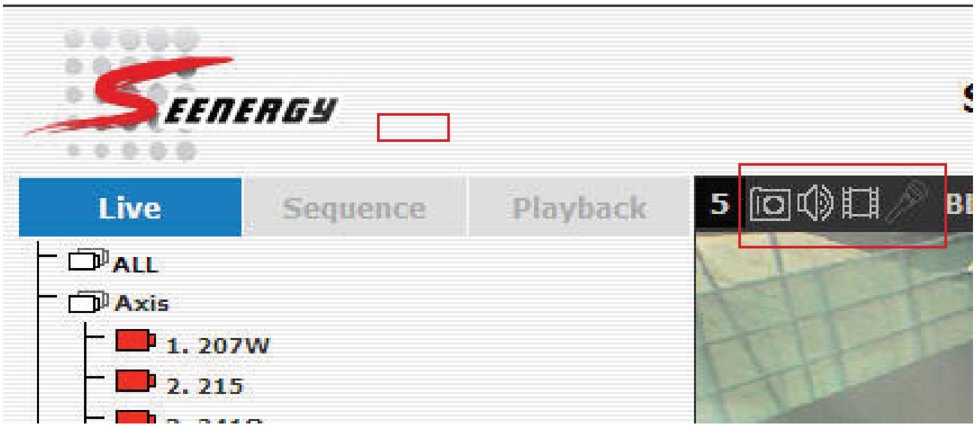
p1

Patrol on Preset Sequence

In the Live View

1.6 Live Video Control Buttons

Each live video window comes with control buttons with functions described below:

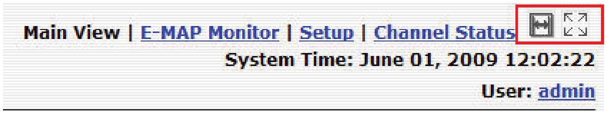

SEENERGY
Live
Sequence
Playback
5
ALL
Axis
1. 207W
2. 215

Take a snapshot of a live video

Turn on/off audio of a live video

Start/stop recording of a live video (manual recording)

Audio post function

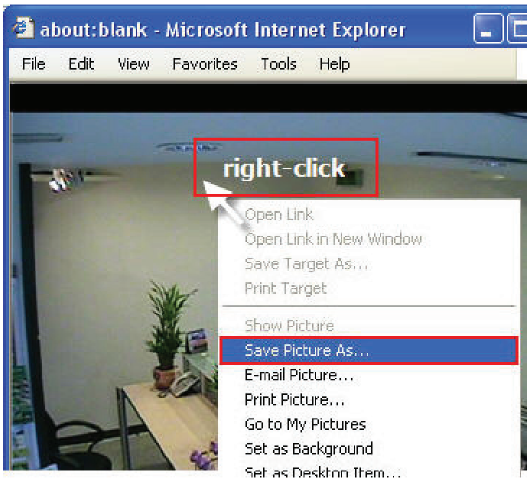

Main View | E-MAP Monitor | Setup | Channel Status
System Time: June 01, 2009 12:02:22
User: admin

Full screen view of a live video

Display video in its original ratio

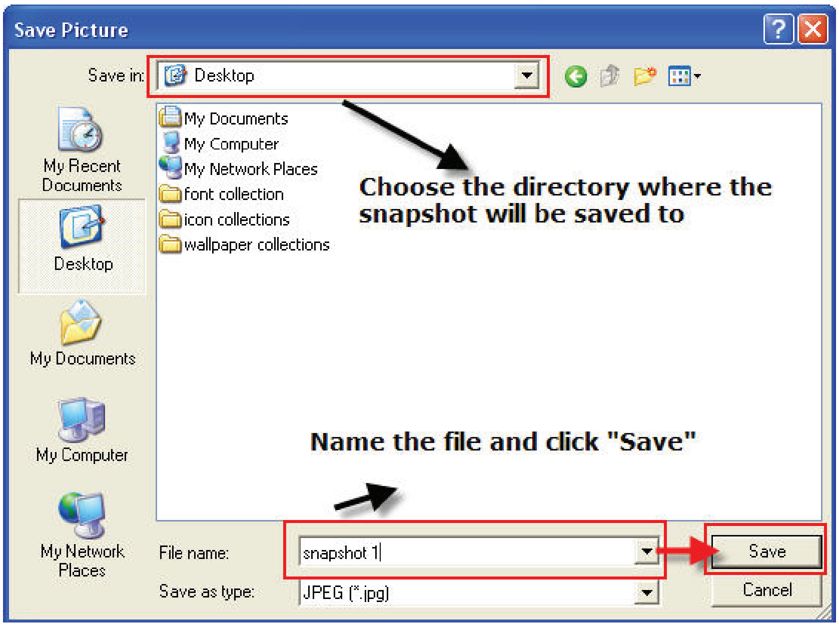
Take a snapshot of a live video

To take a snapshot of a live video, click the 📷 button and the snapshot of the video will be displayed in a pop up window shown like below


about:blank - Microsoft Internet Explorer
File Edit View Favorites Tools Help
right-click
Open Link
Open Link in New Window
Save Target As...
Print Target
Show Picture
Save Picture As...
E-mail Picture...
Print Picture...
Go to My Pictures
Set as Background
Set as Desktop Item...

Right-click anywhere on the image and select "Save Image as" from the pull-down menu

In the pop up dialog, name the image file and choose which directory the image will be saved to and click "Save"


Save Picture
My Documents
My Computer
My Network Places
font collection
icon collections
wallpaper collections
My Recent Documents
Desktop
My Documents
My Computer
My Network Places
Save
Cancel

Save in: Desktop

Choose the directory where the snapshot will be saved to

Name the file and click "Save"

File name: snapshot 1

Save as type: JPEG (*.jpg)

Full Screen View of a Live Video

To view a video in full screen, click the ⛶ button. To exit full screen video, double-click anywhere on the video.

Turn On/Off Audio of a Live Video

You can retrieve audio from a particular camera. Simply click the 🔊 button to do so.

The button will show in different color once the audio is turned on. 🔊 Click on it again to turn off audio.

Start/Stop Recording of a Live Video

You can manually start or stop recording of a live video by using the 🎞 button.

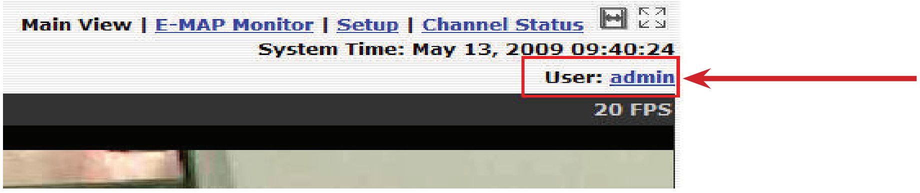
The button will show in different color once the recording is started manually. 🎞 Click on it again to stop recording.

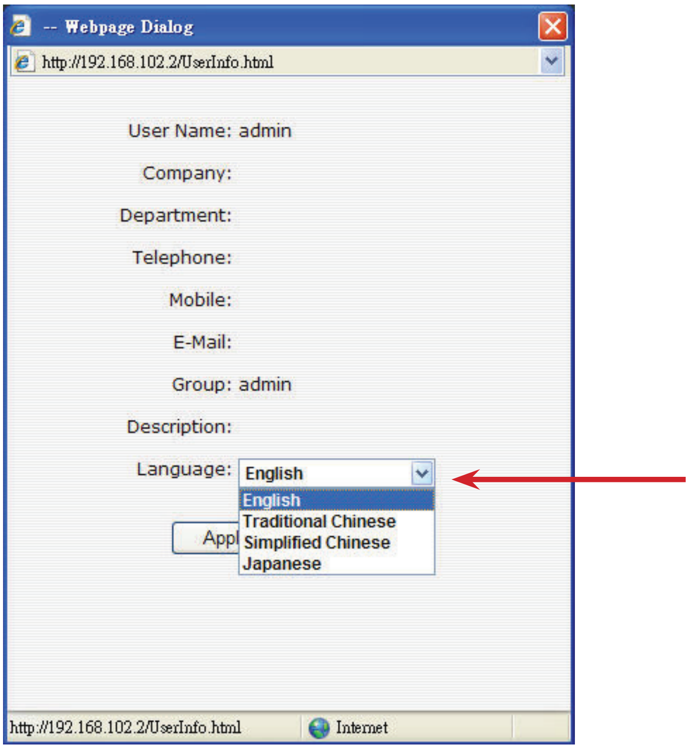
Audio post

This function allows user to speak from a PC through a microphone and the audio can be played at the camera side if it has a speaker connected to it.

1.7 Change Web UI Display Language

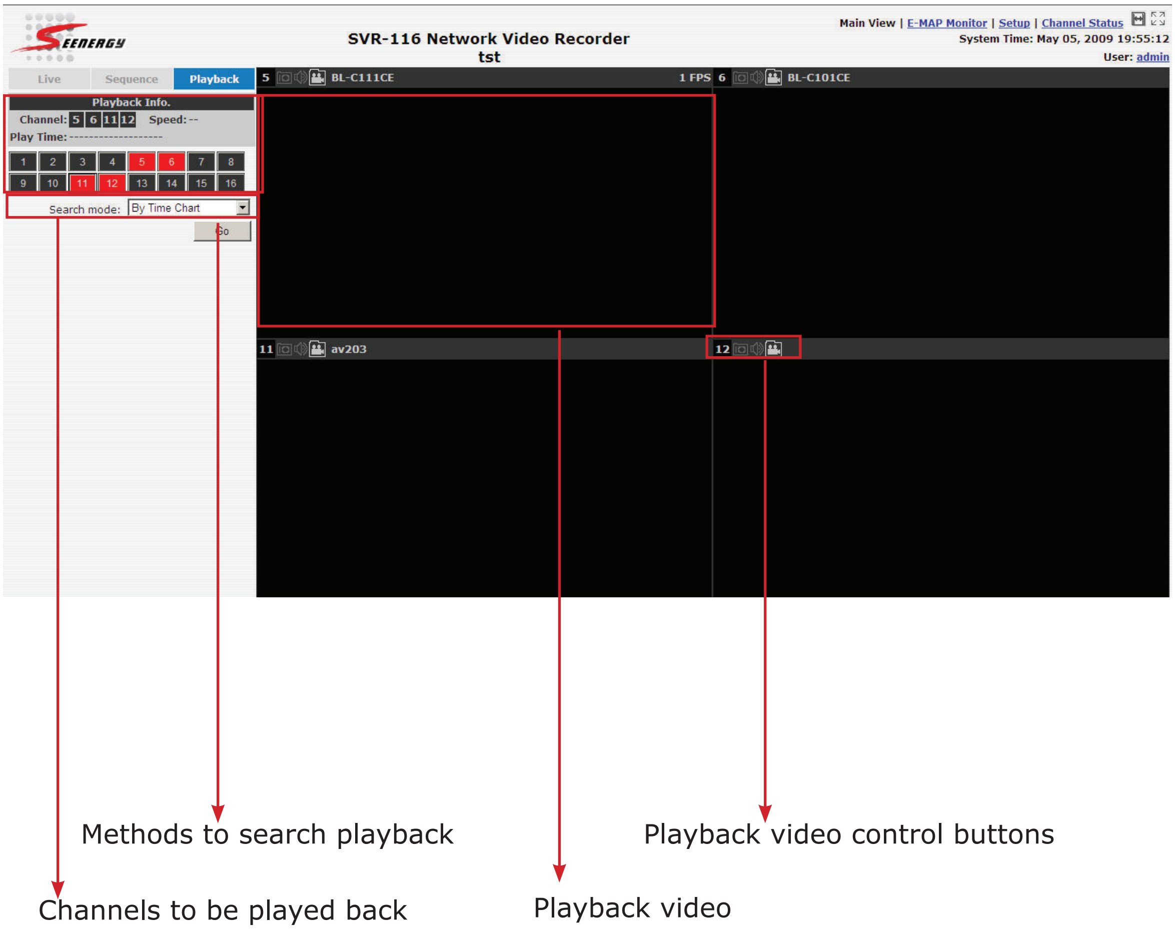
You can change the web UI display language from the current login username link located at the upper-right hand corner. Click on the link opens up a new window which displays detail information about the user as well as a drop-down menu which lets you change the displyay language.


Main View | E-MAP Monitor | Setup | Channel Status
System Time: May 13, 2009 09:40:24
User: admin
20 FPS


-- Webpage Dialog
http://192.168.102.2/UserInfo.html
Appl
English
Traditional Chinese
Simplified Chinese
Japanese
http://192.168.102.2/UserInfo.html
Internet

User Name: admin
Company:
Department:
Telephone:
Mobile:
E-Mail:
Group: admin
Description:
Language: English

2. Playback


SEENERGY
SVR-116 Network Video Recorder
tst
Main View | E-MAP Monitor | Setup | Channel Status
System Time: May 05, 2009 19:55:12
User: admin
Live
Sequence
Playback
Playback Info.
Channel: 5 6 11 12
Speed: --
Play Time: ------------------
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
Search mode:
By Time Chart
Go
5 BL-C111CE
1 FPS
6 BL-C101CE
11 av203
12
Methods to search playback
Playback video control buttons
Channels to be played back
Playback video

Playback is a function that allows you to play one or more videos that were previously recorded by a chosen recording method or due to an event trigger. The NVR offers synchronized playback from up to 4 channels and various types of search methods are provided to help you find the footage you need quickly.

You can turn on or off the audio of a recorded video at your choice if audio was also recorded during the recording of the video.

Playback video can be viewed in full screen and snapshots can be taken and saved during a video playback.

2.1 Methods to Search Playback Videos

The NVR offers three methods to quickly help users find videos that were previously recorded:

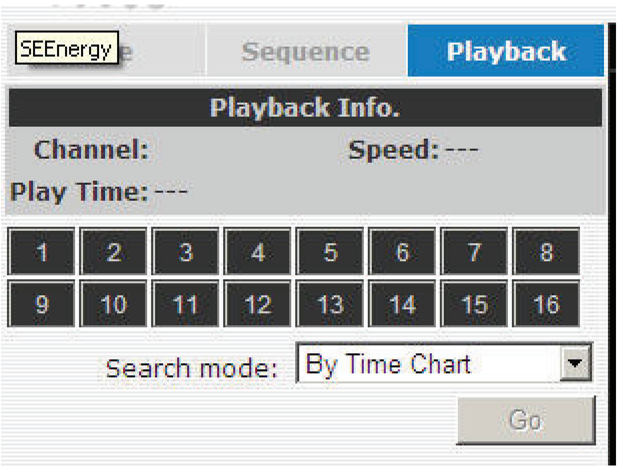
- Search by time: *Specifiy a time range and search videos recorded within that range*

- Search by event: *Find videos that were recorded due to event triggers*

- Play by start time: *Enter a specific time a video was recorded to start playing back the video*

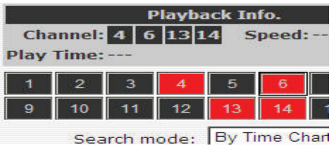
Search by time chart

- Start by selecting which channel(s) you would like to perform a search on:


SEEnergy
Sequence
Playback
Playback Info.
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Go

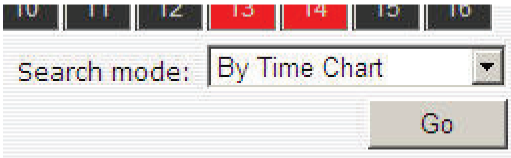
Channel:
Speed: ---
Play Time: ---
Search mode: By Time Chart

** Selected channels will be marked in red*


Playback Info.
1
2
3
4
5
6
9
10
11
12
13
14

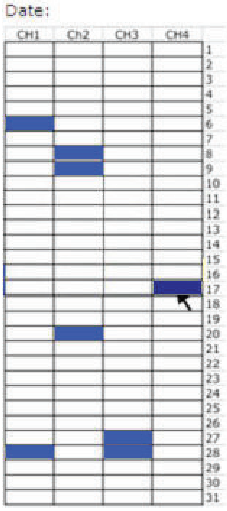
Channel: 4 6 13 14
Speed: --
Play Time: ---
Search mode: By Time Chart

- Select "Search by time chart" from the "Search Method" drop-down list and click "Go" to start the search:


10
11
12
13
14
15
16
Go

Search mode: By Time Chart

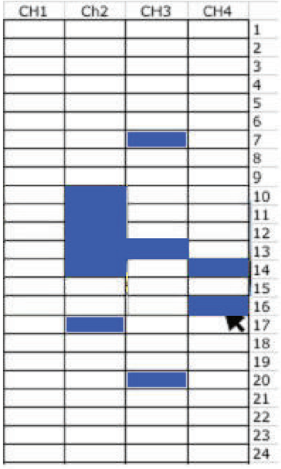
- Results will then be displayed in a "Date/Channel" table and boxes marked in blue represent videos found in those dates:



Date:

CH1	Ch2	CH3	CH4	
				1
				2
				3
				4
				5
🟦				6
				7
	🟦			8
	🟦			9
				10
				11
				12
				13
				14
				15
				16
			🟦	17
				18
				19
	🟦			20
				21
				22
				23
				24
				25
				26
		🟦		27
🟦		🟦		28
				29
				30
				31

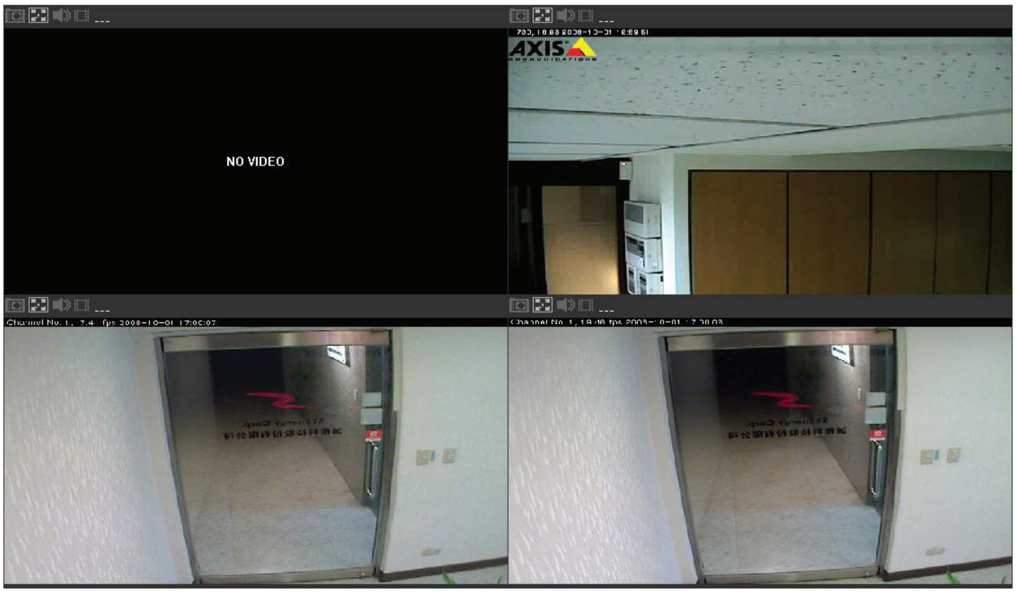
- Click on any blue cell box should direct you to the hour/channel table if there were multiple videos recorded during that date:



CH1	Ch2	CH3	CH4	
				1
				2
				3
				4
				5
				6
		🟦		7
				8
				9
	🟦			10
	🟦			11
	🟦			12
	🟦	🟦		13
	🟦		🟦	14
				15
			🟦	16
	🟦			17
				18
				19
		🟦		20
				21
				22
				23
				24

** Videos from other cameras that are recorded on the same date will also be displayed*

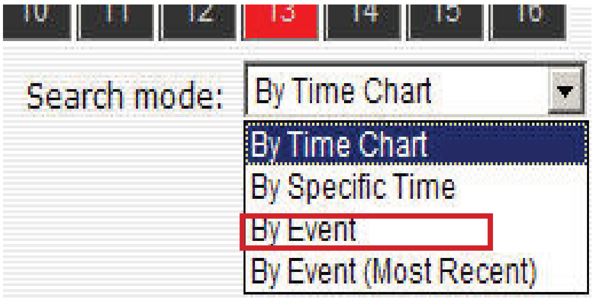
- Click on the cell box again will start playing back the videos if you have reached the end of search results:



- Videos found from other cameras that were recorded at the same time will also be played.

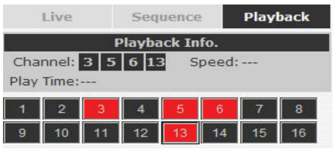
Search by event

- Start by selecting which channel(s) you would like to perform a search on:


10
11
12
13
14
15
16
By Time Chart
By Specific Time
By Event
By Event (Most Recent)

Search mode: By Time Chart

** Selected channels will be marked in red*

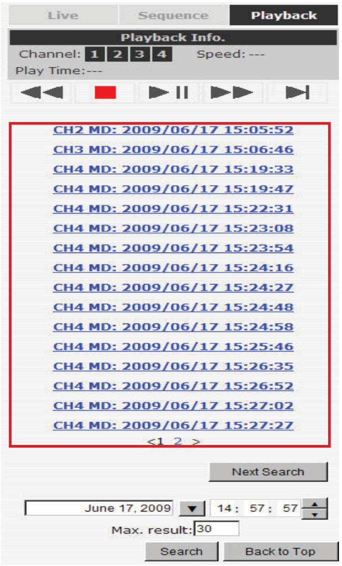

Live
Sequence
Playback
Playback Info.
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

Channel: 3 5 6 13 Speed: ---

Play Time:---

- Select "Search by event" from the "Search Method" drop-down list and click "Go" to start the search:

- Results will then be listed like what is shown below (displays the oldest record top down). Click on a particular result to start the playback:


Live
Sequence
Playback
Playback Info.
<1 2 >
Next Search
Search
Back to Top

Channel: 1 2 3 4 Speed: ---

Play Time:---

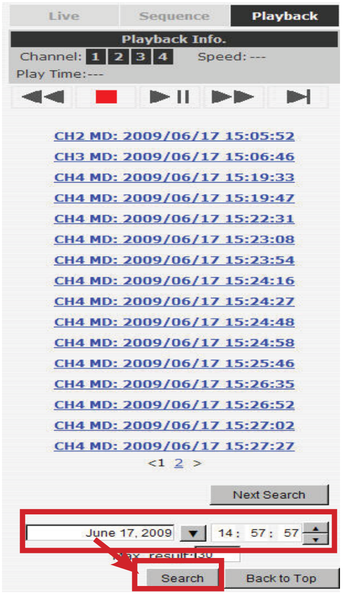
CH2 MD: 2009/06/17 15:05:52
CH3 MD: 2009/06/17 15:06:46
CH4 MD: 2009/06/17 15:19:33
CH4 MD: 2009/06/17 15:19:47
CH4 MD: 2009/06/17 15:22:31
CH4 MD: 2009/06/17 15:23:08
CH4 MD: 2009/06/17 15:23:54
CH4 MD: 2009/06/17 15:24:16
CH4 MD: 2009/06/17 15:24:27
CH4 MD: 2009/06/17 15:24:48
CH4 MD: 2009/06/17 15:24:58
CH4 MD: 2009/06/17 15:25:46
CH4 MD: 2009/06/17 15:26:35
CH4 MD: 2009/06/17 15:26:52
CH4 MD: 2009/06/17 15:27:02
CH4 MD: 2009/06/17 15:27:27

June 17, 2009 14 : 57 : 57

Max. result: 30

** You can cilck "Next Search" to display the next 15 results.*

- You may also specify a new start time to search and display results from then on. You can restrict the number of results to be displayed at once (max. 30) and perform the search again


Live
Sequence
Playback
Playback Info.
Next Search
Search
Back to Top

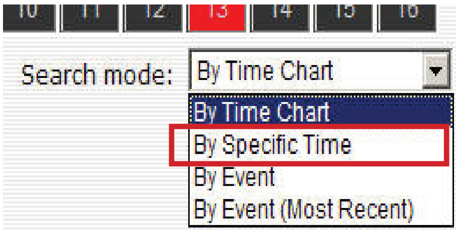
Channel: 1 2 3 4 Speed: ---
Play Time:---

CH2 MD: 2009/06/17 15:05:52
CH3 MD: 2009/06/17 15:06:46
CH4 MD: 2009/06/17 15:19:33
CH4 MD: 2009/06/17 15:19:47
CH4 MD: 2009/06/17 15:22:31
CH4 MD: 2009/06/17 15:23:08
CH4 MD: 2009/06/17 15:23:54
CH4 MD: 2009/06/17 15:24:16
CH4 MD: 2009/06/17 15:24:27
CH4 MD: 2009/06/17 15:24:48
CH4 MD: 2009/06/17 15:24:58
CH4 MD: 2009/06/17 15:25:46
CH4 MD: 2009/06/17 15:26:35
CH4 MD: 2009/06/17 15:26:52
CH4 MD: 2009/06/17 15:27:02
CH4 MD: 2009/06/17 15:27:27
<1 2 >

June 17, 2009 ▼ 14 : 57 : 57

Play by specific time

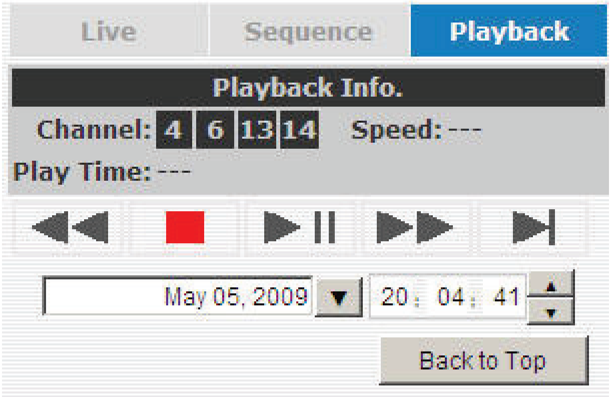
If you know when a recording was taken place, you may choose the "Play by start time" from the "Search Method" drop-down list


10
11
12
13
14
15
16

Search mode: By Time Chart

By Time Chart
By Specific Time
By Event
By Event (Most Recent)

Then you will be prompted to enter a specific time and date for the recorded video.


Live
Sequence
Playback
Playback Info.
Back to Top

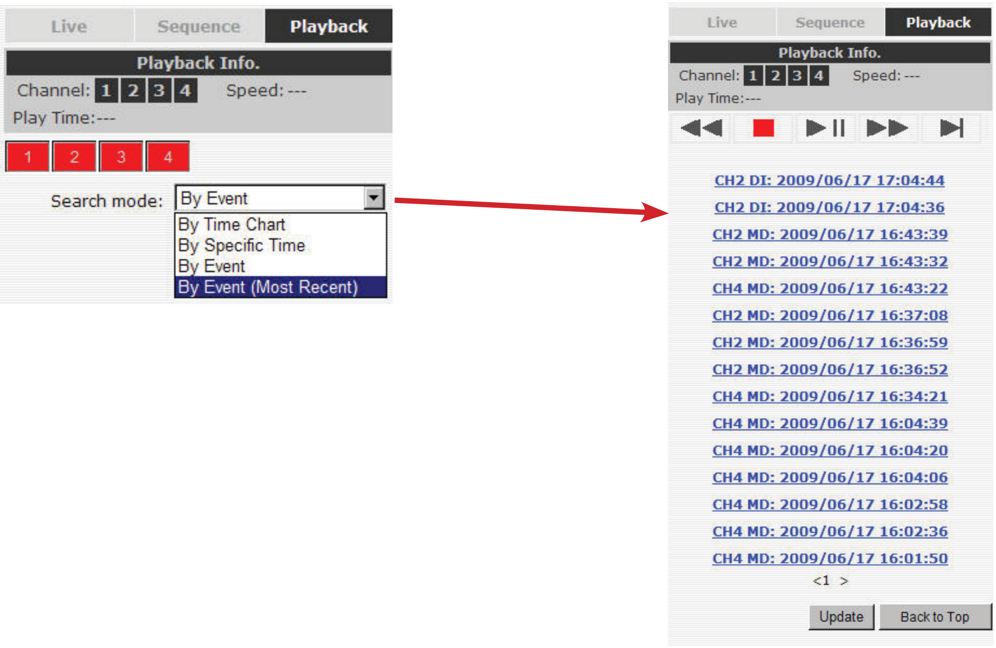
Channel: 4 6 13 14 Speed: ---
Play Time: ---

May 05, 2009 ▼ 20 : 04 : 41

Use the ▼ button to select month, date, and year

Search by event (Most Recent)

This function quickly displays the most recent event recordings from the selected channels, displaying the most recent result top down. You may click "Update" to update the list to display the most recent result


Live
Sequence
Playback
Playback Info.
Channel: 1 2 3 4
Speed: ---
Play Time:---
1
2
3
4
By Time Chart
By Specific Time
By Event
By Event (Most Recent)
<1 >
Update
Back to Top

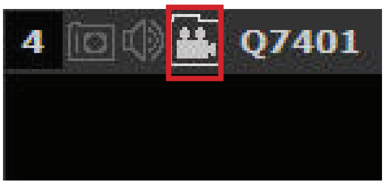
Search mode: By Event

CH2 DI: 2009/06/17 17:04:44
CH2 DI: 2009/06/17 17:04:36
CH2 MD: 2009/06/17 16:43:39
CH2 MD: 2009/06/17 16:43:32
CH4 MD: 2009/06/17 16:43:22
CH2 MD: 2009/06/17 16:37:08
CH2 MD: 2009/06/17 16:36:59
CH2 MD: 2009/06/17 16:36:52
CH4 MD: 2009/06/17 16:34:21
CH4 MD: 2009/06/17 16:04:39
CH4 MD: 2009/06/17 16:04:20
CH4 MD: 2009/06/17 16:04:06
CH4 MD: 2009/06/17 16:02:58
CH4 MD: 2009/06/17 16:02:36
CH4 MD: 2009/06/17 16:01:50

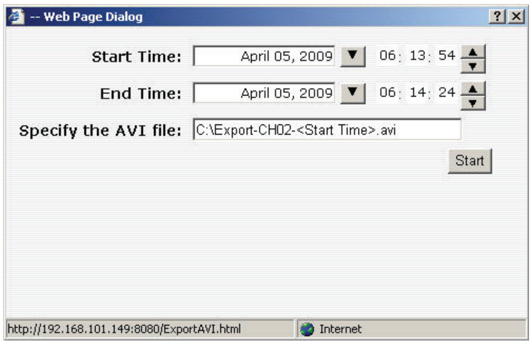
2.2 Export Playback Videos to AVI Files

User can export the recorded playback videos stored on SVR-116 to a local computer and save them in AVI file format. The files can then be played on the PC by a 3rd party media player such as VLC player or Windows Media player.

Once you locate the recorded videos with steps described in the previous section, hit the “Export AVI” button on a video window of the video you wish to export.

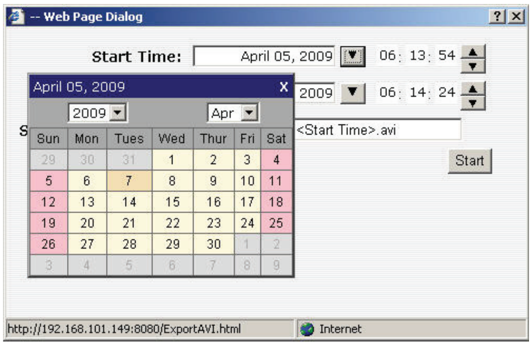


A new dialog will pop up and allows you to speficy the time frame (or length) of the video you wish to export


-- Web Page Dialog
Start
http://192.168.101.149:8080/ExportAVI.html
Internet

Start Time: April 05, 2009 06 : 13 : 54
End Time: April 05, 2009 06 : 14 : 24
Specify the AVI file: C:\Export-CH02-<Start Time>.avi

Click the ▼ button to pull down the calendar to help you specify the month, date and the year

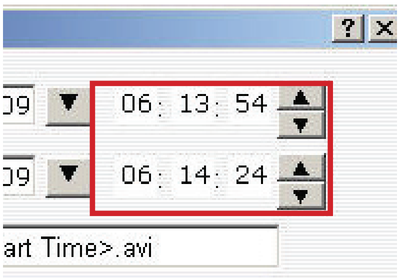

-- Web Page Dialog
Start
http://192.168.101.149:8080/ExportAVI.html
Internet

Start Time: April 05, 2009 06 : 13 : 54
2009 06 : 14 : 24
<Start Time>.avi

April 05, 2009
2009 Apr

Sun	Mon	Tues	Wed	Thur	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

Specify the starting and ending hours of the video by entering numbers in the text boxes

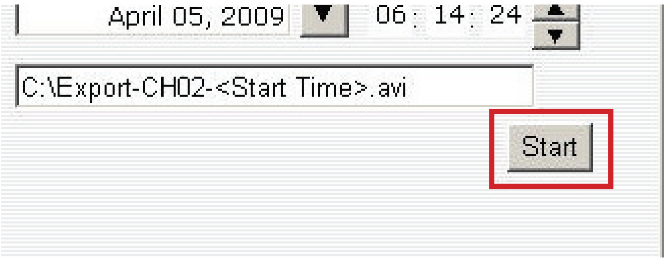


09 06: 13: 54

09 06: 14: 24

art Time>.avi

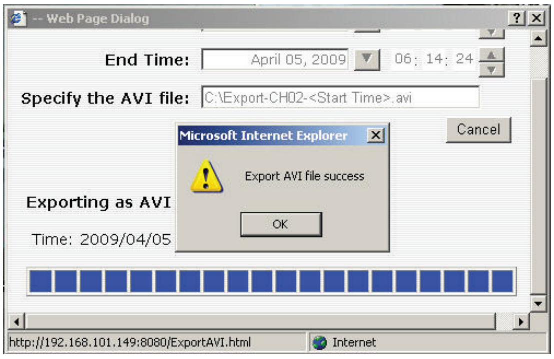
Hit the "Start" button to start exporting. The file will be automatically named and saved under the C:\ partition



April 05, 2009 06: 14: 24

C:\Export-CH02-<Start Time>.avi

You will be notified once the process is completed successfully



-- Web Page Dialog

End Time: April 05, 2009 06: 14: 24

Specify the AVI file: C:\Export-CH02-<Start Time>.avi

Microsoft Internet Explorer

Export AVI file success

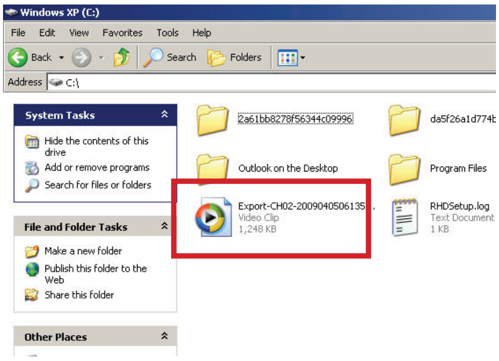
Exporting as AVI

Time: 2009/04/05

http://192.168.101.149:8080/ExportAVI.html

Cancel
OK
Internet

The exported AVI file will be saved under the C partition



Windows XP (C:)

Address C:\

2a61bb8278f56344c09996

da5f26a1d774b

Outlook on the Desktop

Program Files

Export-CH02-2009040506135
Video Clip
1,248 KB

RHDSetup.log
Text Document
1 KB

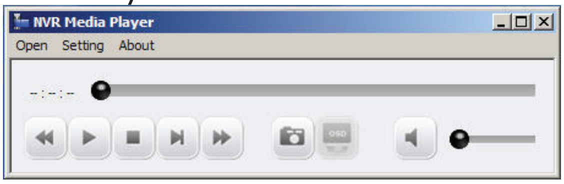
File
Edit
View
Favorites
Tools
Help
Back
Search
Folders
System Tasks
Hide the contents of this drive
Add or remove programs
Search for files or folders
File and Folder Tasks
Make a new folder
Publish this folder to the Web
Share this folder
Other Places

** ffdshow is required in order to play the exported AVI file with Windows Media Player. You can get it at "http://sourceforge.net/projects/ffdshow-tryout/" to download the "ffdshow_beta6_rev2527_20081219.exe"*

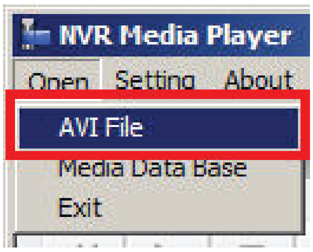
2.3 Play Export Playback Videos with NVR Media Player

You can also use the SEEnergy NVR Media Player to play the exported AVI files. This can save you the trouble of installing third-party media player or codecs when playing the exported AVI videos.

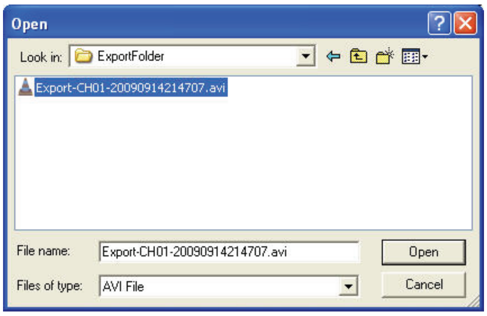
The NVR Media Player will be automatically installed after the CMS software is installed. You can launch the player under "Start" >> "All Programs" >> "SEEnergy Corp" >> "Pi-Vu Central Basic" >> "NVR Media Player"


NVR Media Player
Open
Setting
About
--:--:--

Click "Open" >> "AVI File"


NVR Media Player
Open
Setting
About
AVI File
Media Data Base
Exit

Locate the exported AVI file, and click "open". (normally under "C:\ExportFolder)"

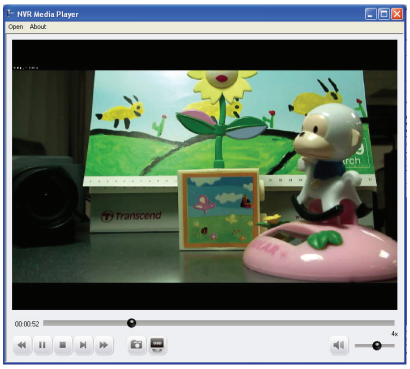

Open
Export-CH01-20090914214707.avi
Open
Cancel

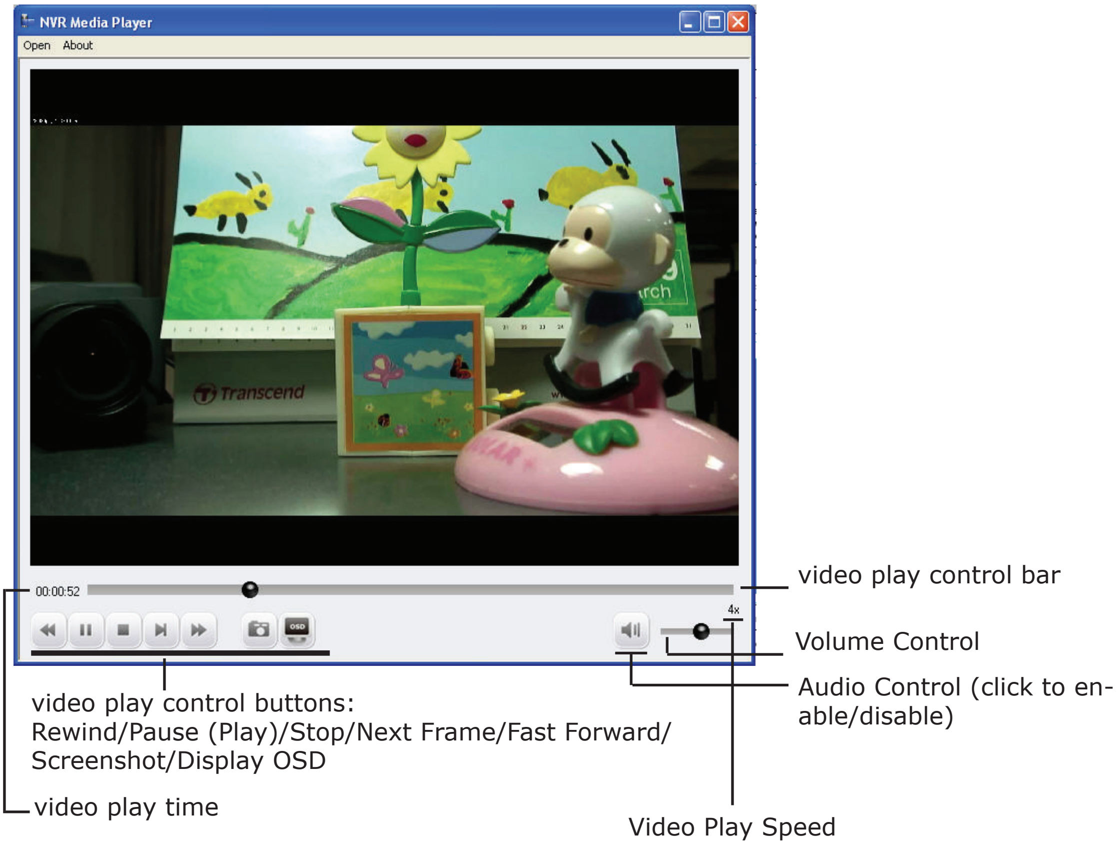
Look in: ExportFolder

File name: Export-CH01-20090914214707.avi

Files of type: AVI File

The video will then start playing

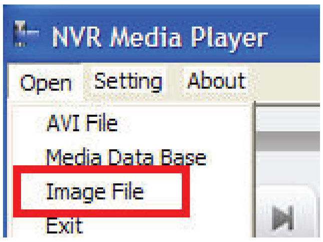

NVR Media Player
Open
About
00:00:52

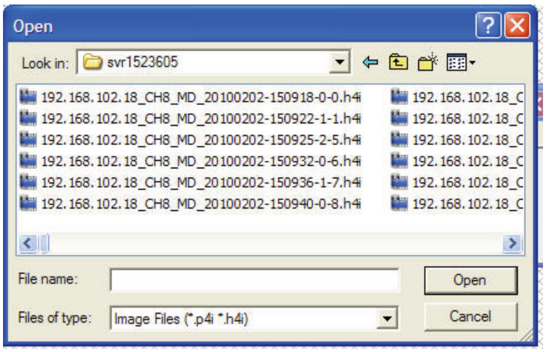

NVR Media Player
Open
About
00:00:52
4x
OSD
video play control bar
Volume Control
Audio Control (click to enable/disable)
video play control buttons:
Rewind/Pause (Play)/Stop/Next Frame/Fast Forward/
Screenshot/Display OSD
video play time
Video Play Speed

2.4 Open Event Snapshot images with NVR Media Player

The NVR sends snapshots that are taken when an event occurs to a destined FTP server or mail recepient. These type of snapshot images are saved in a proprietary image file format, h4i or p4i, and can only be opened by the NVR media player.

To do so, Select “Open” from the top menu then select “Image File”.
A new dialog should be displayed which lets you locate the image file.


NVR Media Player
Open
Setting
About
AVI File
Media Data Base
Image File
Exit


Open
Open
Cancel

Look in: svr1523605

192.168.102.18_CH8_MD_20100202-150918-0-0.h4i
192.168.102.18_CH8_MD_20100202-150922-1-1.h4i
192.168.102.18_CH8_MD_20100202-150925-2-5.h4i
192.168.102.18_CH8_MD_20100202-150932-0-6.h4i
192.168.102.18_CH8_MD_20100202-150936-1-7.h4i
192.168.102.18_CH8_MD_20100202-150940-0-8.h4i
192.168.102.18_C
192.168.102.18_C
192.168.102.18_C
192.168.102.18_C
192.168.102.18_C
192.168.102.18_C

File name:

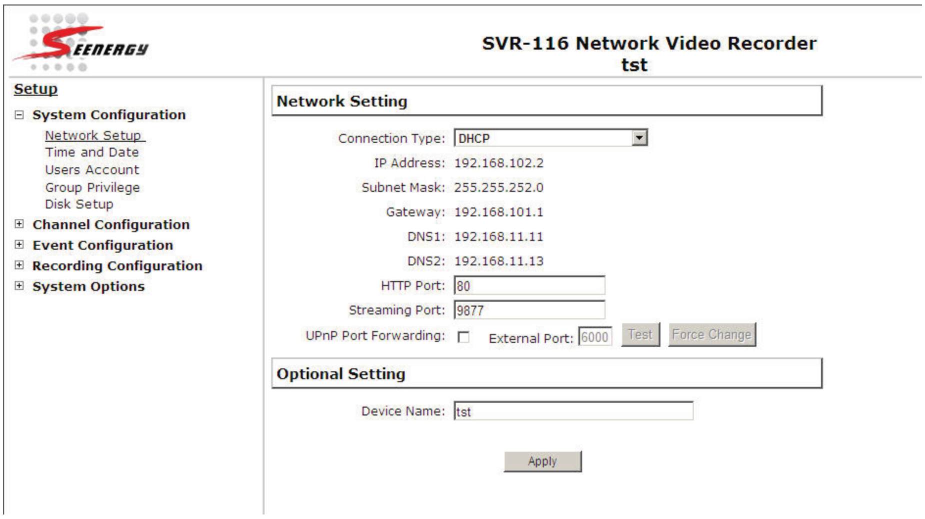
Files of type: Image Files (*.p4i *.h4i)

3. System Setup

3.1 System Configurations

The "System Configurations" page provides users options to setup the device quickly and properly. After properly configuring all settings in all the sub-pages, users should expect a fully working network video recorder that is ready to manage cameras on the network. We will start by configuring its network settings to make sure it works correctly in your network. Next, we will help you adjust the system time so videos will be recorder with correct timestamp. To better secure the system for unwanted disturbance, we will guide you on setting up user's account and privileges to prevent settings gets altered by users other than the system administrator. Lastly, we will tell you what you should expect after installing a hard disk and how to prepare the hard disk for the video recording.

3.1.1 Network Settings


SEENERGY
SVR-116 Network Video Recorder
tst
Setup
⊟ System Configuration
Network Setup
Time and Date
Users Account
Group Privilege
Disk Setup
⊞ Channel Configuration
⊞ Event Configuration
⊞ Recording Configuration
⊞ System Options
Network Setting
Optional Setting
Test
Force Change
Apply

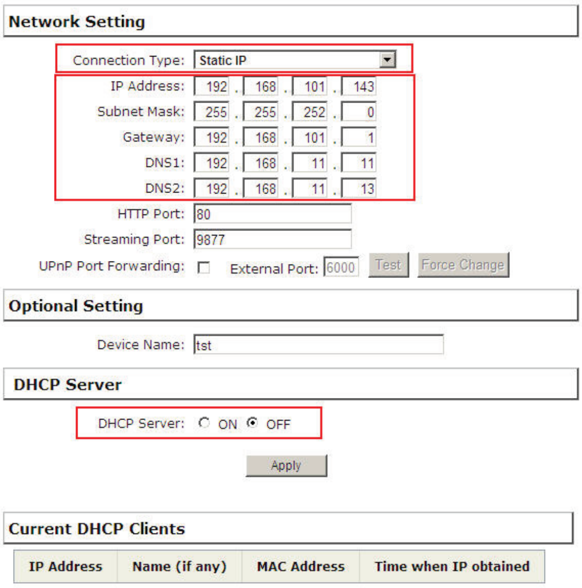
Connection Type: DHCP
IP Address: 192.168.102.2
Subnet Mask: 255.255.252.0
Gateway: 192.168.101.1
DNS1: 192.168.11.11
DNS2: 192.168.11.13
HTTP Port: 80
Streaming Port: 9877
UPnP Port Forwarding: ☐ External Port: 6000
Device Name: tst

You need to adjust settings in this page for the device to work properly in your network. It is critical that settings here are configured correctly based on your network configurations so that the recorder can be administered through the local area network and cameras can be connected from it.

By default, the recorder is set to obtain IP address from DHCP server, it should be sufficient in most network environments, and most likely you should not need to alter anything in this page. To locate the recorder, simply use the SEEnergy IP Utility with steps described in page 12.

If you wish to set the recorder to use a static IP address in your local area network,

1. Choose "Static IP" from the "Connection Type" drop-down menu
2. Enter the IP address, subnet mask, default gateway address and DNS server address for the recorder
3. Enable "DHCP Server" under "DHCP Server" if you wish to use the recorder as a DHCP server, or leave it disabled if there is already a DHCP server in the network ⚠
4. Click Apply for the settings to take effect



Network Setting

Connection Type: Static IP
IP Address: 192 . 168 . 101 . 143
Subnet Mask: 255 . 255 . 252 . 0
Gateway: 192 . 168 . 101 . 1
DNS1: 192 . 168 . 11 . 11
DNS2: 192 . 168 . 11 . 13
HTTP Port: 80
Streaming Port: 9877
UPnP Port Forwarding: ☐ External Port: 6000

Optional Setting

Device Name: tst

DHCP Server

DHCP Server: ○ ON ● OFF

Current DHCP Clients

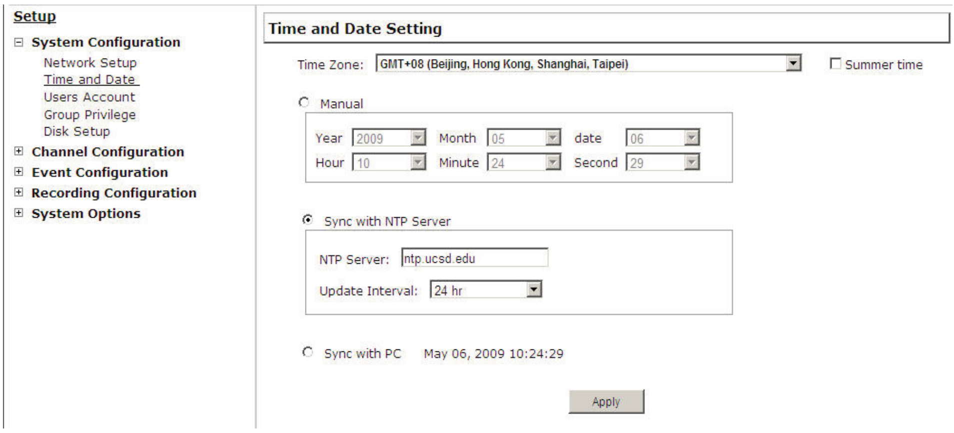
IP Address	Name (if any)	MAC Address	Time when IP obtained

⚠ *The recorder can detect the presence of a DHCP server upon startup. It sets itself to use static IP address if there is no DHCP server currently presented in the network. Its DHCP server function is also turned on at the same time to assign IP addresses to cameras that are later connected to the network*

o You can manually turn off the DHCP server function if you wish to use a separate DHCP server

⚠ *Change the recorder's IP address would require the recorder to restart. Restart the device under "system Options" >> "Maintenance" for the settings to take effect.*

3.1.2 Time and Date


Setup
⊟ System Configuration
Network Setup
Time and Date
Users Account
Group Privilege
Disk Setup
⊞ Channel Configuration
⊞ Event Configuration
⊞ Recording Configuration
⊞ System Options
Apply

Time and Date Setting

Time Zone: GMT+08 (Beijing, Hong Kong, Shanghai, Taipei) ☐ Summer time

○ Manual

Year 2009 Month 05 date 06

Hour 10 Minute 24 Second 29

● Sync with NTP Server

NTP Server: ntp.ucsd.edu

Update Interval: 24 hr

○ Sync with PC May 06, 2009 10:24:29

Set the time and date by selecting the time zone according to your location. It is imperative that you set the recorder's time correctly to avoid the following errors:

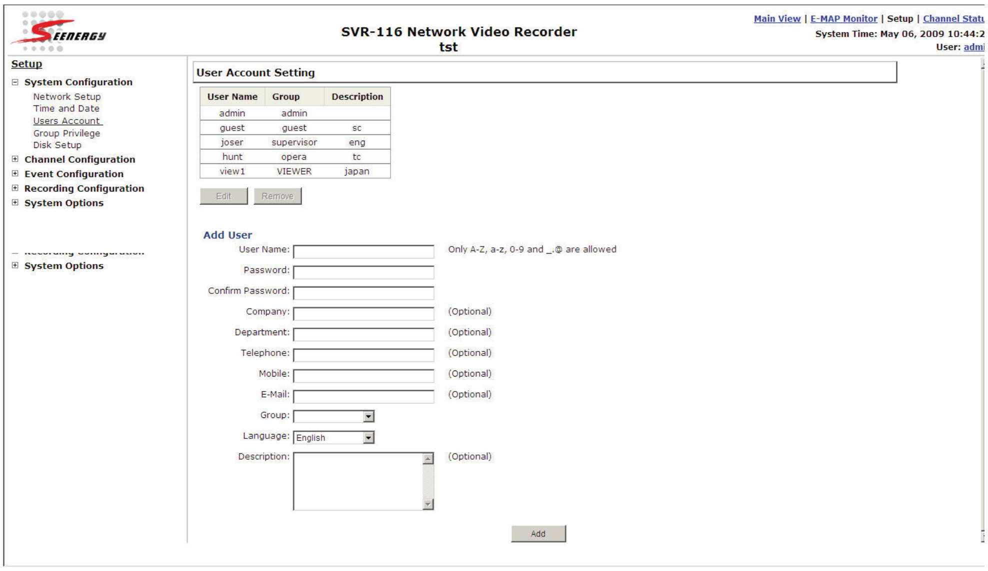
- Incorrect display time for playback videos
- Inconsistent display time of event logs and when they actually occur

After selecting the time zone, choose an option below to set the recorder time

- **Manual** – Use the drop-down list and configure the time manually
- **Sync with NTP server** – enter the hostname or IP address of a valid NTP server and set how often the recorder should synchronize the time with it by using the "Update interval" drop-down menu
- **Sync with PC** – Check this option to synchronize the recorder time with the PC that you are currently using to access the recorder

3.1.3 User Account

The recorder can be accessed by multiple users simultaneously. You can add, remove, and edit users by using options provided in this page to keep user information organized. Each recorder comes with a built-in "admin" account with password "admin". It's highly recommended to change the password upon your initial login.


SEENERGY
Main View | E-MAP Monitor | Setup | Channel Statu
Setup
System Configuration
Network Setup
Time and Date
Users Account
Group Privilege
Disk Setup
Channel Configuration
Event Configuration
Recording Configuration
System Options
Recording Configuration
System Options
Edit
Remove
Add

SVR-116 Network Video Recorder
tst

System Time: May 06, 2009 10:44:2
User: admi

User Account Setting

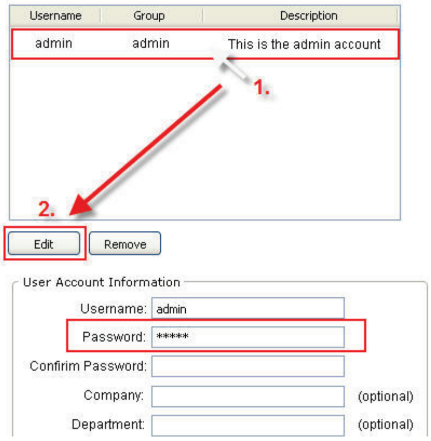
User Name	Group	Description
admin	admin	
guest	guest	sc
joser	supervisor	eng
hunt	opera	tc
view1	VIEWER	japan

Add User

User Name: Only A-Z, a-z, 0-9 and _.@ are allowed
Password:
Confirm Password:
Company: (Optional)
Department: (Optional)
Telephone: (Optional)
Mobile: (Optional)
E-Mail: (Optional)
Group:
Language: English
Description: (Optional)

To change the password of the "admin" account:

1. Click and highlight the "admin" account in the account list and click "Edit"
2. Its information should be displayed in "User Account Information"
3. Enter a new password in the "Password" field and enter it again in "Confirm Password"


1.
2.
Edit
Remove

Username	Group	Description
admin	admin	This is the admin account

User Account Information

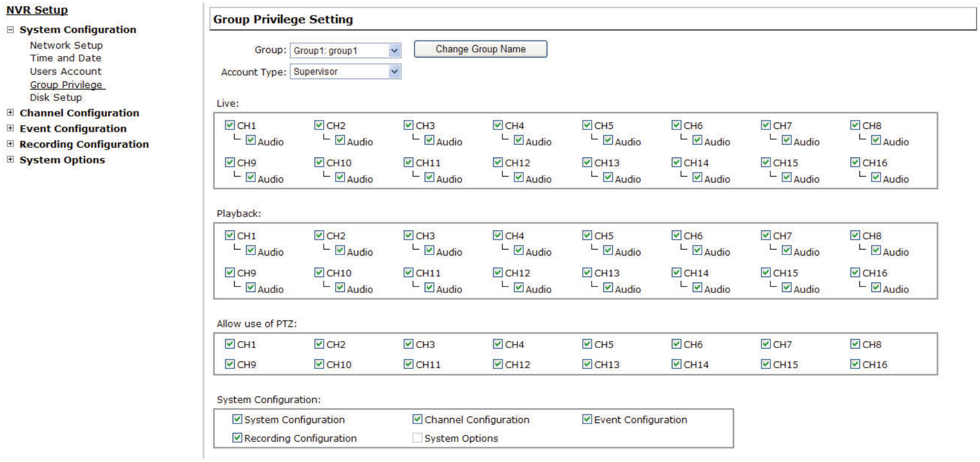
Username: admin
Password: *****
Confirm Password:
Company: (optional)
Department: (optional)

To add a new user:

- Enter a username and password in "User Account Information". All other fields are optional for your own reference.
- Select a group from the "Group" drop-down menu to assign the new user to a particular group
- Enter a short description for the account if you wish
- Click "Apply" to finish configuration

3.1.4 Group Privilege

Group Privilege is where you can create multiple customized access policies for situations if you need the recorder to be accessed by users other than the administrator. You can do so by creating a group, and then remove access privileges for certain configuration pages or cameras. Users that are created and assigned to this group will have limited access instead of full administration rights.


NVR Setup
⊟ System Configuration
Network Setup
Time and Date
Users Account
Group Privilege
Disk Setup
⊞ Channel Configuration
⊞ Event Configuration
⊞ Recording Configuration
⊞ System Options
Group Privilege Setting
Change Group Name

Group: Group1: group1
Account Type: Supervisor

Live:
☑ CH1 ☑ Audio ☑ CH2 ☑ Audio ☑ CH3 ☑ Audio ☑ CH4 ☑ Audio ☑ CH5 ☑ Audio ☑ CH6 ☑ Audio ☑ CH7 ☑ Audio ☑ CH8 ☑ Audio
☑ CH9 ☑ Audio ☑ CH10 ☑ Audio ☑ CH11 ☑ Audio ☑ CH12 ☑ Audio ☑ CH13 ☑ Audio ☑ CH14 ☑ Audio ☑ CH15 ☑ Audio ☑ CH16 ☑ Audio

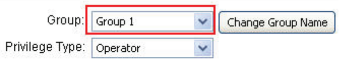
Playback:
☑ CH1 ☑ Audio ☑ CH2 ☑ Audio ☑ CH3 ☑ Audio ☑ CH4 ☑ Audio ☑ CH5 ☑ Audio ☑ CH6 ☑ Audio ☑ CH7 ☑ Audio ☑ CH8 ☑ Audio
☑ CH9 ☑ Audio ☑ CH10 ☑ Audio ☑ CH11 ☑ Audio ☑ CH12 ☑ Audio ☑ CH13 ☑ Audio ☑ CH14 ☑ Audio ☑ CH15 ☑ Audio ☑ CH16 ☑ Audio

Allow use of PTZ:
☑ CH1 ☑ CH2 ☑ CH3 ☑ CH4 ☑ CH5 ☑ CH6 ☑ CH7 ☑ CH8
☑ CH9 ☑ CH10 ☑ CH11 ☑ CH12 ☑ CH13 ☑ CH14 ☑ CH15 ☑ CH16

System Configuration:
☑ System Configuration ☑ Channel Configuration ☑ Event Configuration
☑ Recording Configuration ☐ System Options

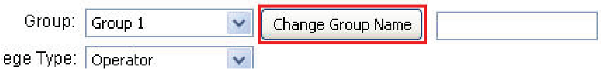
The recorder comes with seven built-in groups and five built-in privilege profiles, except the "admin" and the "guest" accounts; the other five groups are fully customizable or you can simply assign a group with one of the default privilege profiles. You can, however, assign more than one users to the "admin" account if you wish to do so. The guest account comes with a "view-only" privilege in the "Live View" page, and users in this group do not have the power to make any changes in the "Live View" page or have access to pages other than the "Live View" page.

To create a group, select a group from the "Group" drop-down


Change Group Name

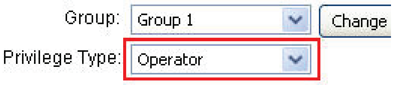
Group: Group 1
Privilege Type: Operator

You can change the group name by clicking the "Change Group Name" button. A text box will be displayed for you to enter the new group


Change Group Name

Group: Group 1
ege Type: Operator

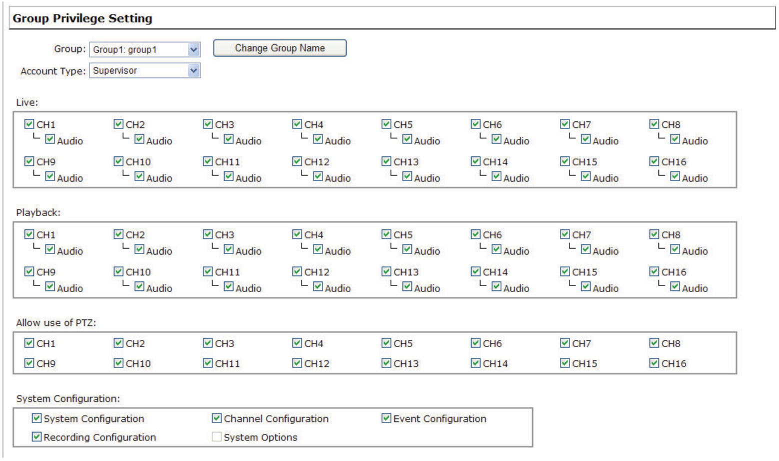
Choose what type of privilege you would like this group to have from the “Privilege Type” drop-down menu



Group: Group 1

Privilege Type: Operator

Its access privilege will then be displayed. You can alter its settings by allowing or denying access to other cameras using the checkboxes instead of accepting the defaults



Group Privilege Setting

Group: Group1: group1

Account Type: Supervisor

Live:

☑ CH1 ☑ Audio ☑ CH2 ☑ Audio ☑ CH3 ☑ Audio ☑ CH4 ☑ Audio ☑ CH5 ☑ Audio ☑ CH6 ☑ Audio ☑ CH7 ☑ Audio ☑ CH8 ☑ Audio
☑ CH9 ☑ Audio ☑ CH10 ☑ Audio ☑ CH11 ☑ Audio ☑ CH12 ☑ Audio ☑ CH13 ☑ Audio ☑ CH14 ☑ Audio ☑ CH15 ☑ Audio ☑ CH16 ☑ Audio

Playback:

☑ CH1 ☑ Audio ☑ CH2 ☑ Audio ☑ CH3 ☑ Audio ☑ CH4 ☑ Audio ☑ CH5 ☑ Audio ☑ CH6 ☑ Audio ☑ CH7 ☑ Audio ☑ CH8 ☑ Audio
☑ CH9 ☑ Audio ☑ CH10 ☑ Audio ☑ CH11 ☑ Audio ☑ CH12 ☑ Audio ☑ CH13 ☑ Audio ☑ CH14 ☑ Audio ☑ CH15 ☑ Audio ☑ CH16 ☑ Audio

Allow use of PTZ:

☑ CH1 ☑ CH2 ☑ CH3 ☑ CH4 ☑ CH5 ☑ CH6 ☑ CH7 ☑ CH8
☑ CH9 ☑ CH10 ☑ CH11 ☑ CH12 ☑ CH13 ☑ CH14 ☑ CH15 ☑ CH16

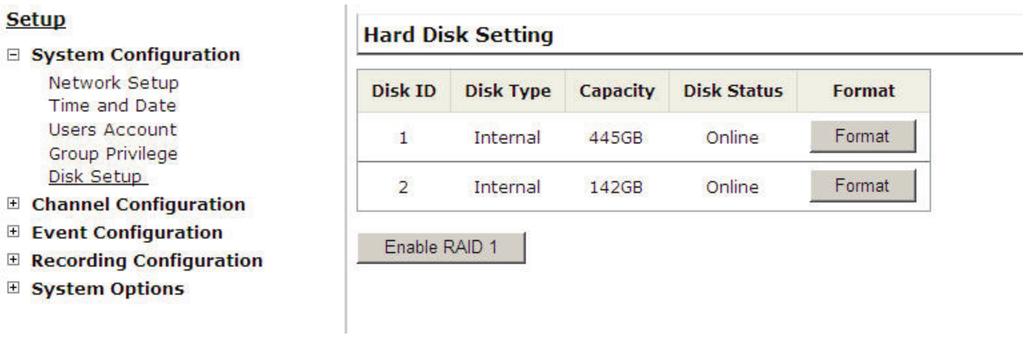
System Configuration:

☑ System Configuration ☑ Channel Configuration ☑ Event Configuration
☑ Recording Configuration ☐ System Options

3.1.5 Disk Setup

Once you install a hard disk to the recorder, you would need to initialize it so that it can be ready for recording. You can obtain basic information about the disk you installed in this page

To initialize it, simply click the "Format" button


Setup
⊟ System Configuration
Network Setup
Time and Date
Users Account
Group Privilege
Disk Setup
⊞ Channel Configuration
⊞ Event Configuration
⊞ Recording Configuration
⊞ System Options
Hard Disk Setting
Enable RAID 1

Disk ID	Disk Type	Capacity	Disk Status	Format
1	Internal	445GB	Online	Format
2	Internal	142GB	Online	Format

You can also connect external USB thumb drive to the recorder for firmware upgrade.

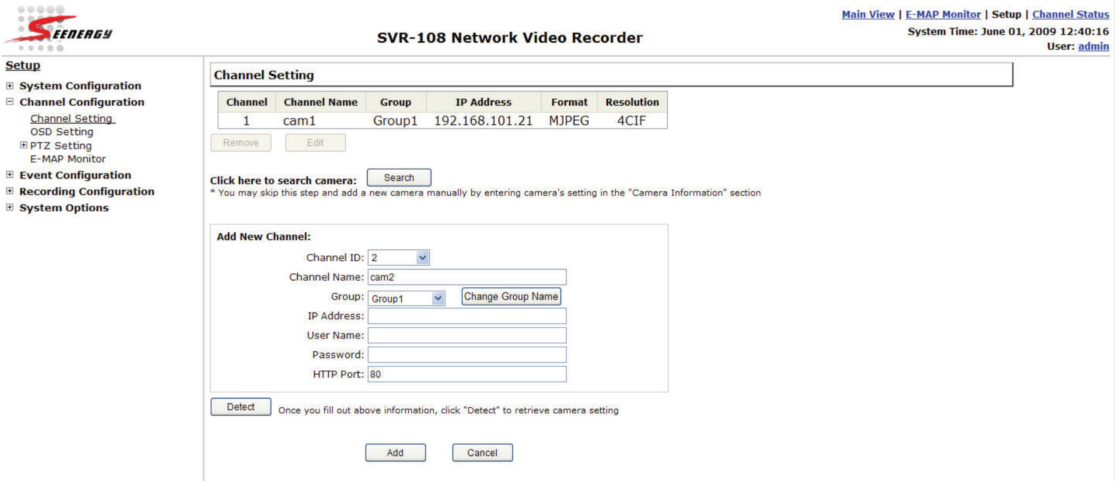
⚠ *For instructions to install a hard disk to the recorder, refer to page 9*

⚠ *To obtain detail information about the disk, go to "System Options" >> "Disk Status"*

3.2 Channel Configurations

3.2.1 Add a Camera

The NVR provides two options for adding a new camera. Users have the option to let the recorder automatically find the cameras or it is possible to enter camera's information and add it manually.


SEENERGY
Main View | E-MAP Monitor | Setup | Channel Status
Setup
System Configuration
Channel Configuration
Channel Setting
OSD Setting
PTZ Setting
E-MAP Monitor
Event Configuration
Recording Configuration
System Options
Remove
Edit
Search
Change Group Name
Detect
Add
Cancel

SVR-108 Network Video Recorder

System Time: June 01, 2009 12:40:16
User: admin

Channel Setting

Channel	Channel Name	Group	IP Address	Format	Resolution
1	cam1	Group1	192.168.101.21	MJPEG	4CIF

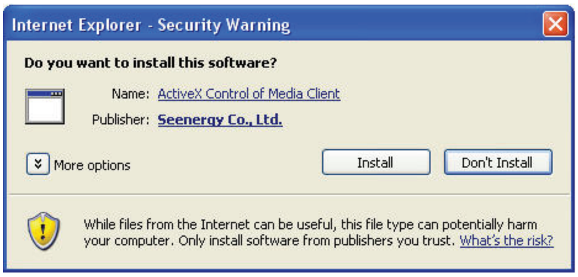
Click here to search camera:
* You may skip this step and add a new camera manually by entering camera's setting in the "Camera Information" section

Add New Channel:
Channel ID: 2
Channel Name: cam2
Group: Group1
IP Address:
User Name:
Password:
HTTP Port: 80

Once you fill out above information, click "Detect" to retrieve camera setting

Automatic Search:

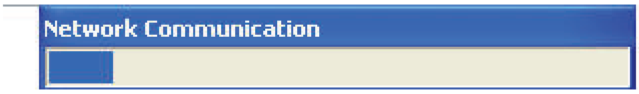
1. Click the "Search" button to perform the camera search. You should be prompted to install Active Control component in order for the search to function properly. Go ahead and click "Install"


Internet Explorer - Security Warning
More options
Install
Don't Install

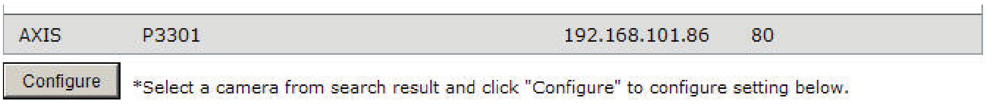
Do you want to install this software?
Name: ActiveX Control of Media Client
Publisher: Seenergy Co., Ltd.

While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

2. After that, the search should begin and its status should be displayed:

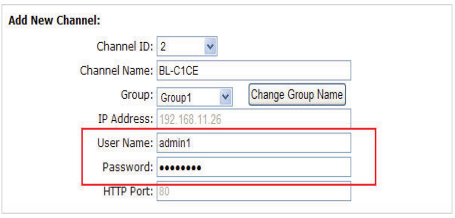

Network Communication

3. Found cameras should be listed and simply select a camera from the list and press "Configure"


AXIS P3301 192.168.101.86 80

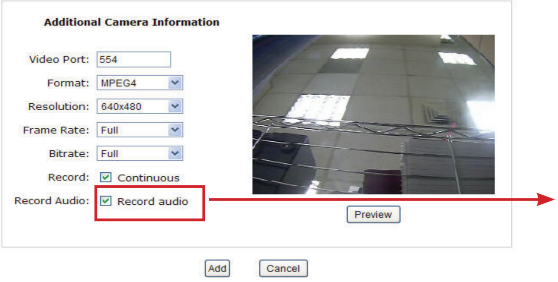
*Select a camera from search result and click "Configure" to configure setting below.

4. Its corresponding information should be displayed in the "Camera Information" section. Enter its username and password and select the channel ID and name the camera.


Add New Channel:

Channel ID: 2
Channel Name: BL-C1CE
Group: Group1
IP Address: 192.168.11.26
User Name: admin1
Password: ••••••••
HTTP Port: 80

5. Click on "Detect" to establish connection between the recorder and the camera. If connection establishes successfully, camera's detailed information should be polled and displayed as below


Additional Camera Information

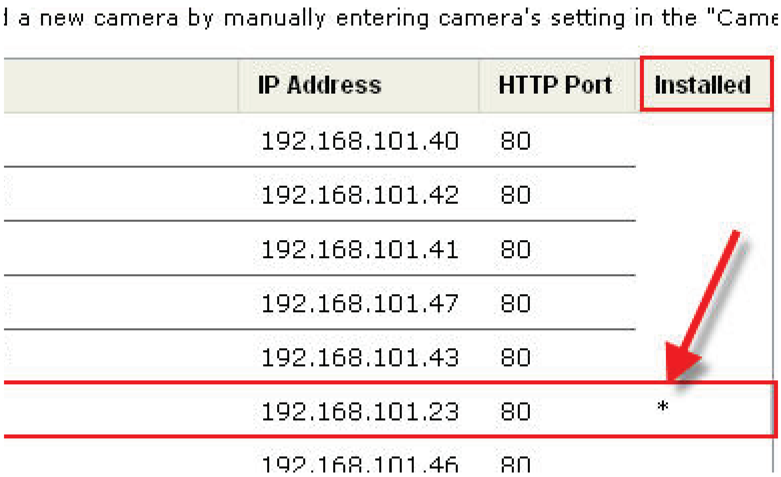
Video Port: 554
Format: MPEG4
Resolution: 640x480
Frame Rate: Full
Bitrate: Full
Record: ☑ Continuous
Record Audio: ☑ Record audio

** Audio from this channel will not be recorded if this option is unchecked*

6. Adjust its video format, frame rate, resolution or bitrate…etc if you wish. You can also click on the "Preview" to preview the live video of the camera.

Click "Add" to finish adding the camera

If cameras are marked with "" in the search result, it means those cameras are already configured and connected to SVR-116.*

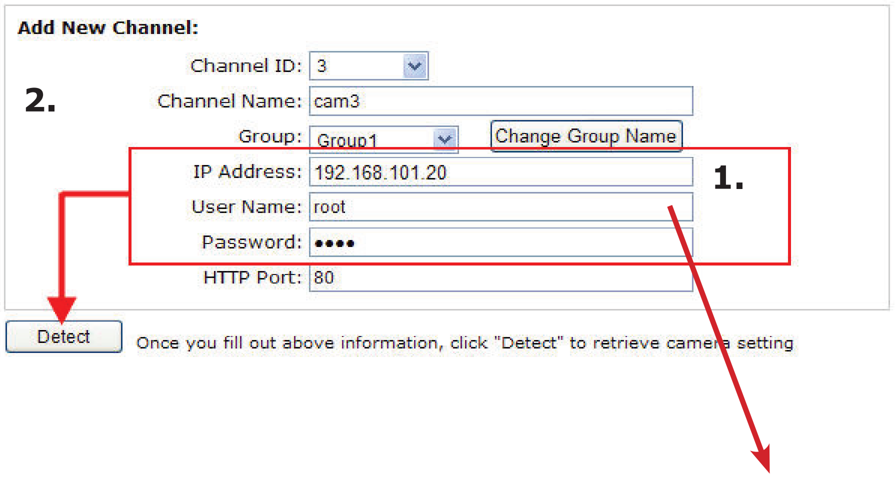


a new camera by manually entering camera's setting in the "Came

	IP Address	HTTP Port	Installed
	192.168.101.40	80	
	192.168.101.42	80	
	192.168.101.41	80	
	192.168.101.47	80	
	192.168.101.43	80	
	192.168.101.23	80	*
	192.168.101.46	80	

Add a camera manually

Simply follow the instruction described above but instead of using the "Search" function, enter the camera's IP address and credential in the "Camera Information" manually, then follow step 5 ~6 described above.



Add New Channel:

2.

Channel ID: 3
Channel Name: cam3
Group: Group1
IP Address: 192.168.101.20
User Name: root
Password: ••••
HTTP Port: 80

1.

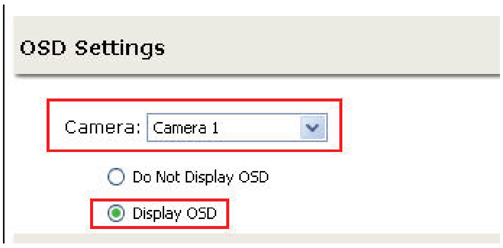
Once you fill out above information, click "Detect" to retrieve camera setting

Enter manually

3.2.2 OSD Settings

The OSD (On Screen Display) allows users to add informational text message and embed it onto the video. By default, this function is turned off. To add texts to one or more videos,

1. Select a camera you would like to add text to and choose "Display OSD"



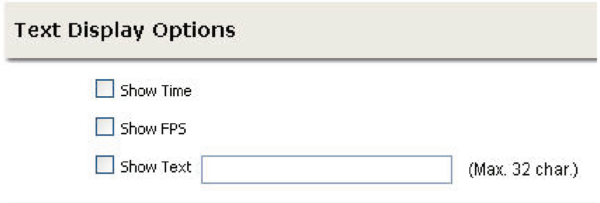
OSD Settings

Camera: Camera 1

○ Do Not Display OSD

● Display OSD

2. Choose one or more display options if you would also like the recorder to automatically embed the system time or the frame rate for you. Or simply choose to display a custom message of your own



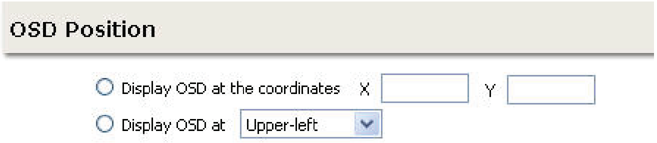
Text Display Options

☐ Show Time

☐ Show FPS

☐ Show Text (Max. 32 char.)

3. Next, define where the text will be displayed by either entering an X/Y coordinate or use the system pre-defined position from the drop-down menu

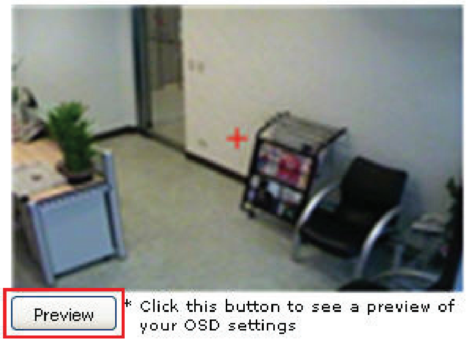


OSD Position

○ Display OSD at the coordinates X Y

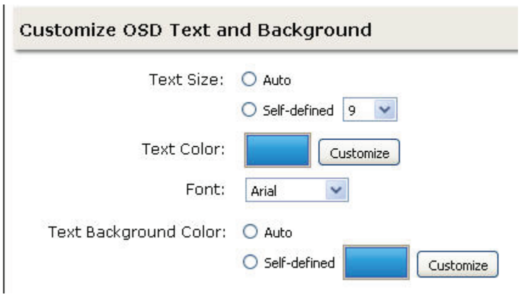
○ Display OSD at Upper-left

4. Click on the "Preview" button to see the preview of your setting and click "Apply" to save the configuration



* Click this button to see a preview of your OSD settings

- *The texts can be further adjusted with changes to different size, color or font so they can be more visible on the video*



Customize OSD Text and Background

Text Size: ○ Auto
○ Self-defined 9

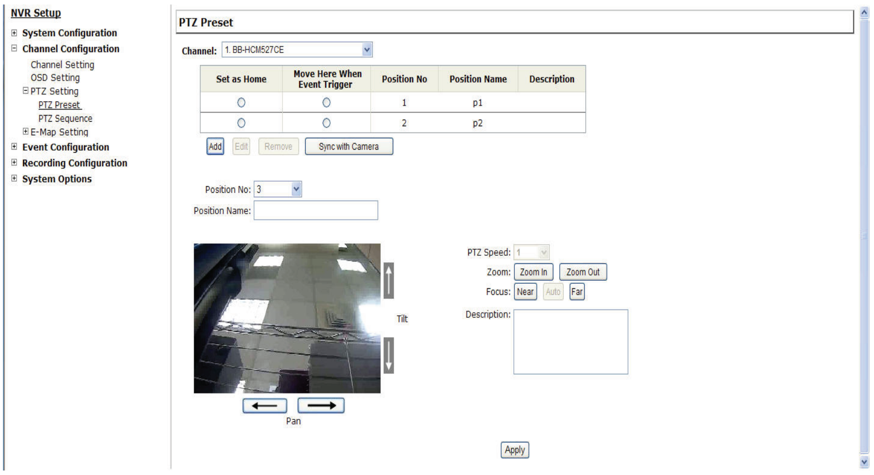
Text Color: Customize

Font: Arial

Text Background Color: ○ Auto
○ Self-defined Customize

3.2.3 PTZ Preset Settings

The recorder supports PTZ cameras and can set multiple preset points or retrieve and manage preset points that are set in the camera. This is helpful if you need to monitor multiple spots in one area from a particular camera.


NVR Setup
⊞ System Configuration
⊟ Channel Configuration
Channel Setting
OSD Setting
⊟ PTZ Setting
PTZ Preset
PTZ Sequence
⊞ E-Map Setting
⊞ Event Configuration
⊞ Recording Configuration
⊞ System Options
Add
Edit
Remove
Sync with Camera
PTZ Speed:
Zoom:
Zoom In
Zoom Out
Focus:
Near
Auto
Far
Tilt
Pan
Apply

PTZ Preset

Channel: 1. BB-HCM527CE

Set as Home	Move Here When Event Trigger	Position No	Position Name	Description
○	○	1	p1	
○	○	2	p2	

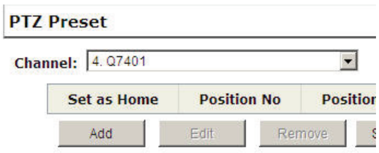
Position No: 3

Position Name:

PTZ Speed: 1

Description:

1. To set up PTZ preset points, select a camera from the "Camera" drop-down menu and click "Add"

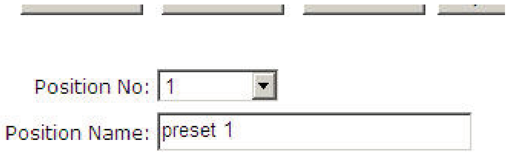

Add
Edit
Remove

PTZ Preset

Channel: 4. Q7401

Set as Home	Position No	Positior

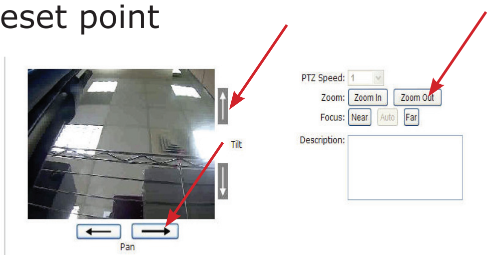
2. Select a position number for the preset point from the "Position Number" drop-down menu and fill in a name in the "Position Name" field for easier identification



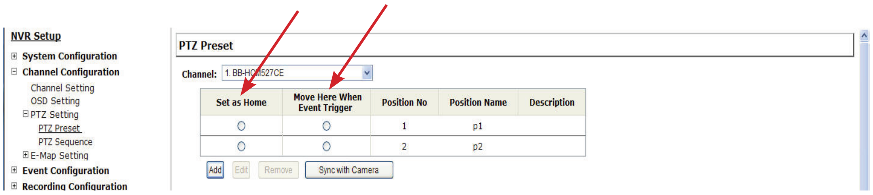
Position No: 1

Position Name: preset 1

3. Use the PTZ control provided in the configuration page to set the preset point


PTZ Speed:
Zoom:
Zoom In
Zoom Out
Focus:
Near
Auto
Far
Description:
Tilt
Pan

Ultimately, you can choose to make this preset point a “Home” point among all other preset points, as well as making the camera to move to this particular point when an event is triggered.


NVR Setup
⊞ System Configuration
⊟ Channel Configuration
Channel Setting
OSD Setting
⊟ PTZ Setting
PTZ Preset
PTZ Sequence
⊞ E-Map Setting
⊞ Event Configuration
⊞ Recording Configuration
Add
Edit
Remove
Sync with Camera

PTZ Preset

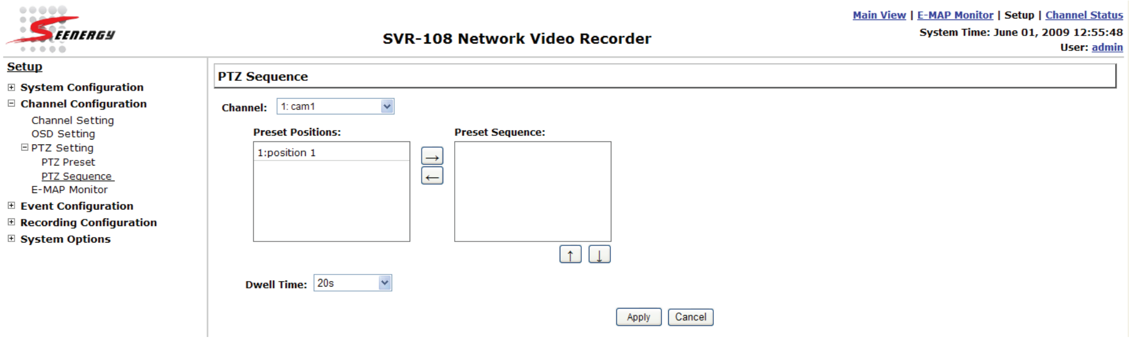
Channel: 1. BB-HCM527CE

Set as Home	Move Here When Event Trigger	Position No	Position Name	Description
○	○	1	p1	
○	○	2	p2	

- *“Move Here when Event Trigger”: In order for this function to work properly, please also complete configuration in “Event Configuration” >> “Event Trigger”*

3.2.4 PTZ Preset Sequence

Once you have multiple preset points defined for a camera, it is convenient for monitoring to set up the sequencing viewing among those preset point and let the recorder automatically switch between them for you.


SEENERGY
SVR-108 Network Video Recorder
Main View | E-MAP Monitor | Setup | Channel Status
Setup
System Configuration
Channel Configuration
Channel Setting
OSD Setting
PTZ Setting
PTZ Preset
PTZ Sequence
E-MAP Monitor
Event Configuration
Recording Configuration
System Options
PTZ Sequence
→
←
↑
↓
Apply
Cancel

System Time: June 01, 2009 12:55:48
User: admin

Channel: 1: cam1

Preset Positions: 1:position 1

Preset Sequence:

Dwell Time: 20s

To configure preset sequence for a camera, select a channel from the "Channel" drop-down menu

The available preset points should be listed in "Camera Presets" section

Pick the ones you like for sequence viewing and press the "->" button to move them to the "Preset Sequence" section, then use the up and down buttons to adjust their sequencing positions.

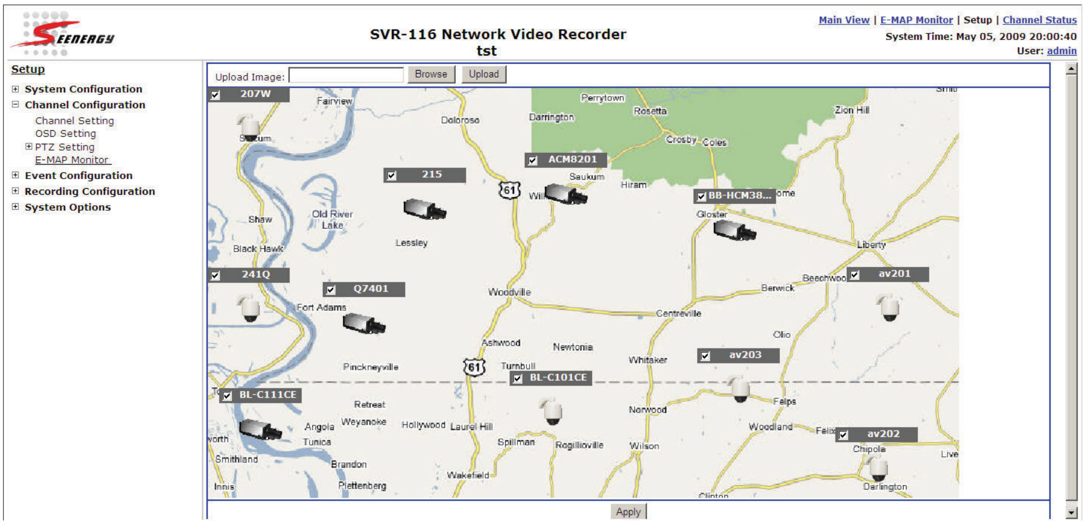
Finally, select a dwell time from the drop-down menu and click "Apply" to save the configuration

- *To start preset sequence viewing, check page 21 for instructions*

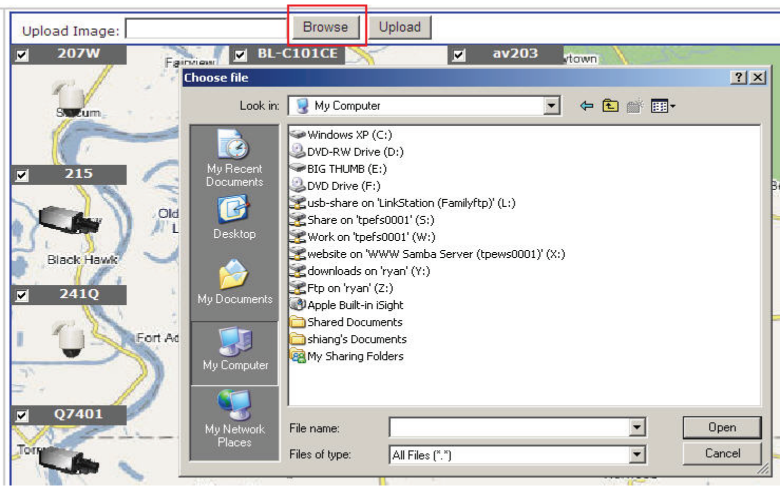
3.2.5 E-Map Setting

3.2.5.1 Local Map Setting

E-Map monitor is a function that alerts users whenever there is an event triggered (e.g. motion detected) from a camera with a geographical perspective. With this function, users can quickly identify which camera has detected an unusual event and where this event is happening. This function works by incorporating the event detection function as well as the recording function, which, as a result, helps users take all the necessary actions when an unusual event occurs.

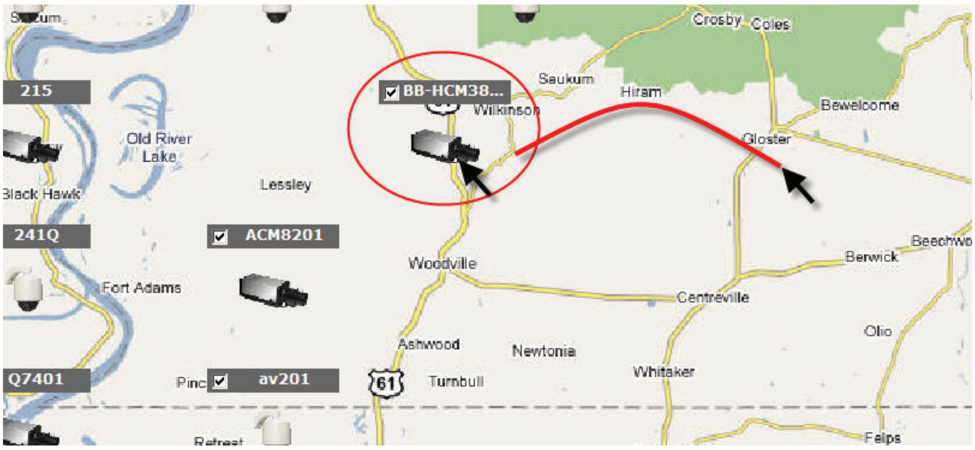

SEENERGY
SVR-116 Network Video Recorder
tst
Main View | E-MAP Monitor | Setup | Channel Status
System Time: May 05, 2009 20:00:40
User: admin
Setup
System Configuration
Channel Configuration
Channel Setting
OSD Setting
PTZ Setting
E-MAP Monitor
Event Configuration
Recording Configuration
System Options
Upload Image:
Browse
Upload
207W
215
ACM8201
BB-HCM38...
241Q
Q7401
av201
av203
BL-C101CE
BL-C111CE
av202
Apply

To replace the map, click "Browse" button to locate the new map image file from the local PC and then click "Upload"

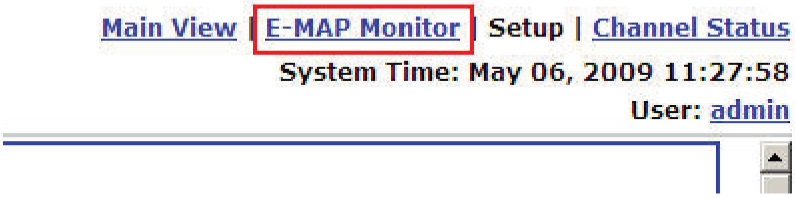

Upload Image:
Browse
Upload
207W
BL-C101CE
av203
215
241Q
Q7401
Choose file
Look in:
My Computer
My Recent Documents
Desktop
My Documents
My Computer
My Network Places
Windows XP (C:)
DVD-RW Drive (D:)
BIG THUMB (E:)
DVD Drive (F:)
usb-share on 'LinkStation (Familyftp)' (L:)
Share on 'tpefs0001' (S:)
Work on 'tpefs0001' (W:)
website on 'WWW Samba Server (tpews0001)' (X:)
downloads on 'ryan' (Y:)
Ftp on 'ryan' (Z:)
Apple Built-in iSight
Shared Documents
shiang's Documents
My Sharing Folders
File name:
Files of type:
All Files (*.*)
Open
Cancel

- *Only JPG, PNG, and GIF file formats are supported with file size under 100KB*

Then click and drag the camera icon to move the camera to define its location.


215
BB-HCM38...
241Q
ACM8201
Q7401
av201
Old River Lake
Black Hawk
Lessley
Wilkinson
Saukum
Hiram
Crosby
Coles
Beweloome
Gloster
Berwick
Beechwo
Woodville
Centreville
Fort Adams
Olio
Ashwood
Newtonia
Whitaker
Pinc
Turnbull
61
Retreat
Felps

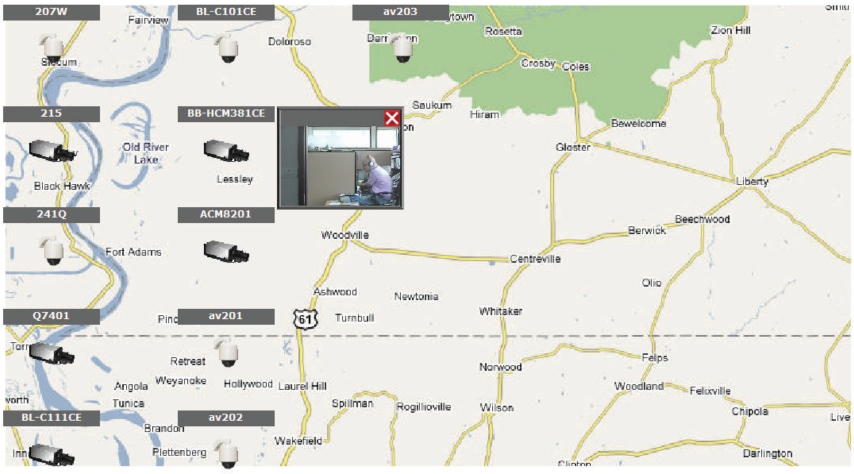
Access the E-Map Monitor page from the upper-right hand corner menu


Main View | E-MAP Monitor | Setup | Channel Status

System Time: May 06, 2009 11:27:58

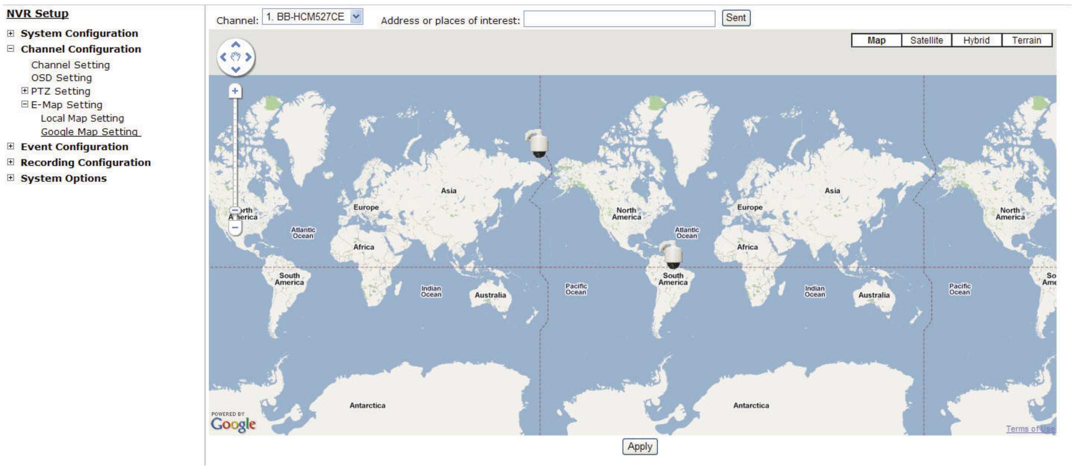
User: admin

When the NVR receives an event triggered from any of the cameras, their videos will be displayed on the E-Map and you can double-click on the video to enlarge it


207W
BL-C101CE
av203
215
BB-HCM381CE
241Q
ACM8201
Q7401
av201
BL-C111CE
av202
Fairview
Doloroso
Rosetta
Zion Hill
Crosby
Coles
Saukum
Hiram
Beweloome
Gloster
Liberty
Old River Lake
Black Hawk
Lessley
Woodville
Berwick
Beechwood
Centreville
Fort Adams
Olio
Ashwood
Newtonia
Whitaker
Turnbull
61
Felps
Retreat
Norwood
Angola
Weyanoke
Hollywood
Laurel Hill
Woodland
Felixville
Tunica
Spillman
Rogillioville
Wilson
Chipola
Brandon
Plettenberg
Wakefield
Darlington

3.2.5.2 Google Map Setting

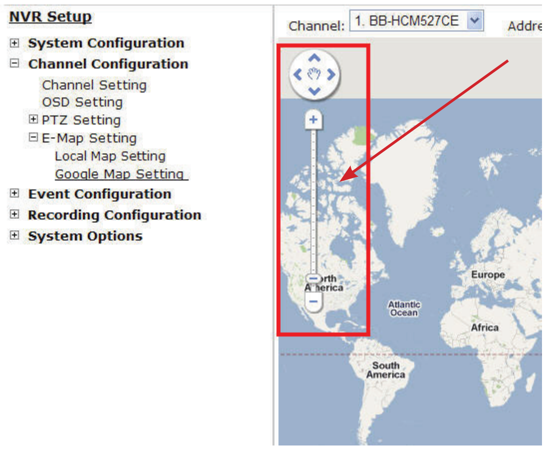
The Google Map monitor is a similar function to the aforementioned E-Map monitor. It is useful if you are managing multiple cameras from different locations.


NVR Setup
⊞ System Configuration
⊟ Channel Configuration
Channel Setting
OSD Setting
⊞ PTZ Setting
⊟ E-Map Setting
Local Map Setting
Google Map Setting
⊞ Event Configuration
⊞ Recording Configuration
⊞ System Options
Map
Satellite
Hybrid
Terrain
Asia
Europe
Africa
North America
South America
Atlantic Ocean
Indian Ocean
Pacific Ocean
Australia
Antarctica
Google
Terms of Use
Sent
Apply

Channel: 1. BB-HCM527CE
Address or places of interest:

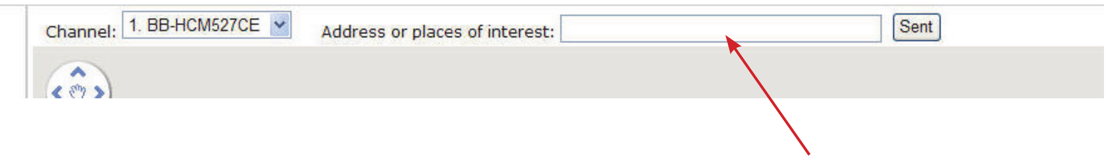
To configure locations of each camera, first determine the location you'd like to place the camera to on the map. You can do so by:

1. Zoom in to a smaller area by using the zoom control bar on the map
2. Zoom in to a smaller area by using the mouse scroll button


NVR Setup
⊞ System Configuration
⊟ Channel Configuration
Channel Setting
OSD Setting
⊞ PTZ Setting
⊟ E-Map Setting
Local Map Setting
Google Map Setting
⊞ Event Configuration
⊞ Recording Configuration
⊞ System Options
Addre
North America
Europe
Atlantic Ocean
Africa
South America

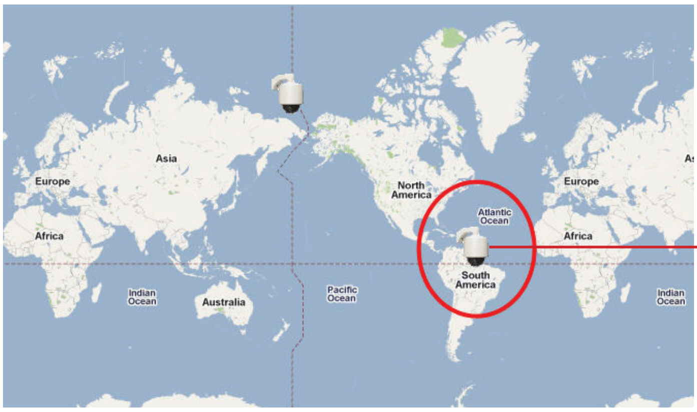
Channel: 1. BB-HCM527CE

You can also go to a specific place on the map by entering its address or the name of the place in the "Address or places of interest" field:



Channel: 1. BB-HCM527CE
Address or places of interest:

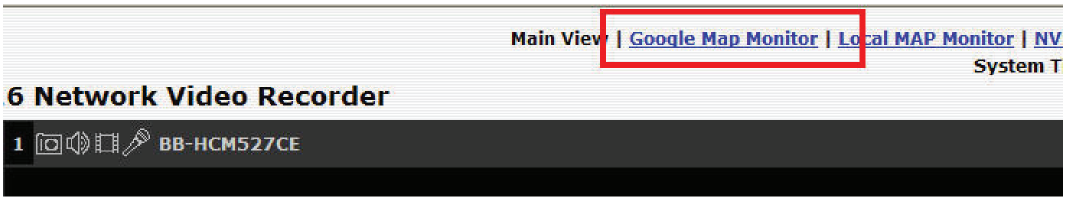
Once the location has been determined, click and drag the camera icon to move it to the desired location:


Asia
Europe
Africa
Indian Ocean
Australia
Pacific Ocean
North America
Atlantic Ocean
South America
Europe
Africa
Indian Ocean

** Click and drag the icon to re-arrange its location*

- *The Google Map Monitor requires active Internet connection and can not be used in conjunction with the regular E-Map monitor function.*
- *You can click anywhere on the map and hold down the mouse left button then drag to move the map itself*

You can then access the Google Map Monitor from the top menu:

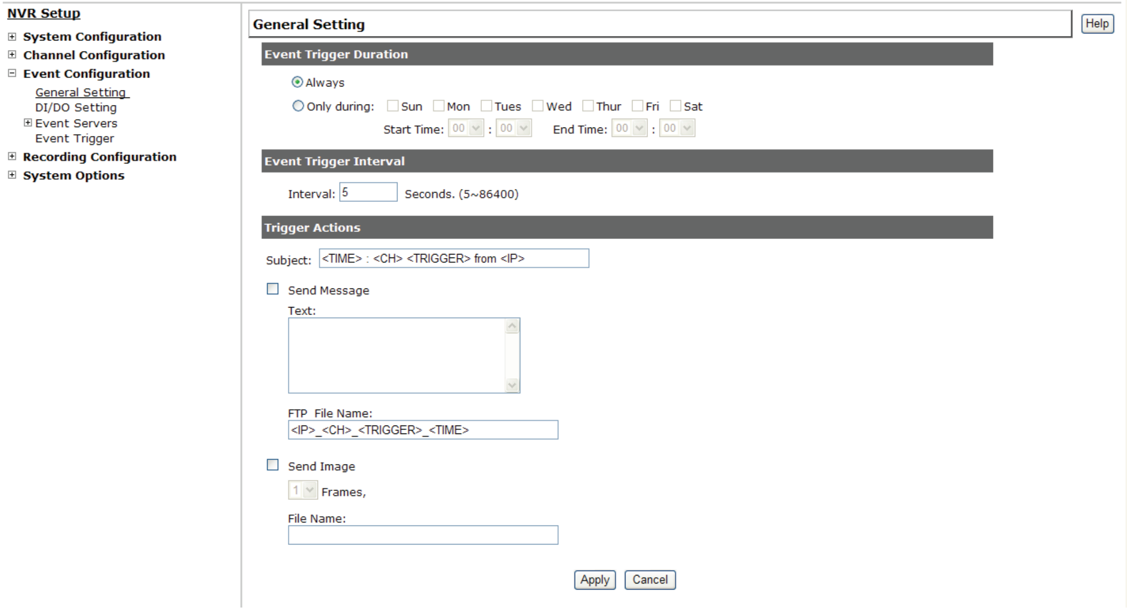

Main View | Google Map Monitor | Local MAP Monitor | NV
System T
6 Network Video Recorder
1
BB-HCM527CE

3.3 Event Configurations

The "Event Configurations" section allows users to define conditions that constitute an event, its corresponding trigger action and when it will be triggered. Such setting can reduce the management overhead and notify the administrator only when it's necessary.

3.3.1 General Settings

The general settings section can help you quickly configure when an event is triggered, how often events are triggered and the corresponding actions when events are triggered.


NVR Setup
⊞ System Configuration
⊞ Channel Configuration
⊟ Event Configuration
General Setting
DI/DO Setting
⊞ Event Servers
Event Trigger
⊞ Recording Configuration
⊞ System Options
General Setting
Help
Event Trigger Duration
Event Trigger Interval
Trigger Actions
Apply
Cancel

● Always

○ Only during: ☐ Sun ☐ Mon ☐ Tues ☐ Wed ☐ Thur ☐ Fri ☐ Sat

Start Time: 00 : 00 End Time: 00 : 00

Interval: 5 Seconds. (5~86400)

Subject: <TIME> : <CH> <TRIGGER> from <IP>

☐ Send Message

Text:

FTP File Name: <IP>_<CH>_<TRIGGER>_<TIME>

☐ Send Image

1 Frames,

File Name:

Start the event configuration by defining the general settings:

Define when an event will be triggered

- Choose "Always" or "Only during…" under "Event Trigger Duration"
- For the "Only during…" option, choose the days by using the checkbox and then define the time range in those days in the "Start Time" and "End Time" fields that you would like the event trigger function to be enabled.

How often an event is triggered

- Set a time interval under "Event Trigger Interval" to define how often events are triggered

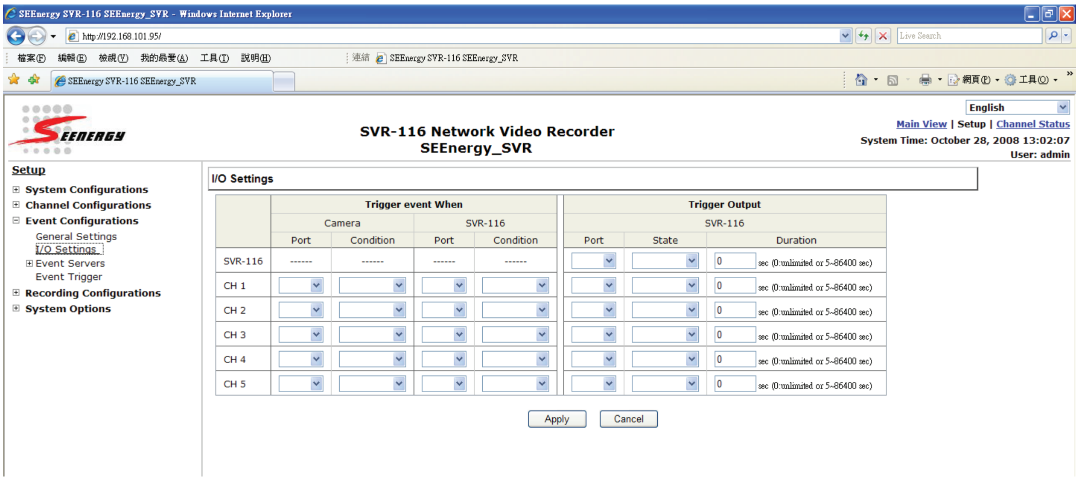
Trigger action

Now that you have the event trigger duration and interval defined, choose what action to be taken during an event trigger:

- You can choose to have the recorder send out the first few frames of the video recorder upon an event is triggered
- You can also choose to have the recorder send out a warning message in e-mail or in txt file format and upload it to an destined FTP server

3.3.2 I/O Settings

This function allows users to manage camera's digital input and output ports right from the recorder. You can setup the recorder to receive triggers from a particular camera's input port and trigger a device, such as an alarm that is connected to the recorder or camera's output port. Cameras that do not have built-in digital input/output port can also be configured to pair with the recorder's DI/DO ports.


SEEnergy SVR-116 SEEnergy_SVR - Windows Internet Explorer
http://192.168.101.95/
Live Search
檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)
連結 SEEnergy SVR-116 SEEnergy_SVR
SEEnergy SVR-116 SEEnergy_SVR
網頁(P) 工具(O)
SEENERGY
English
Main View | Setup | Channel Status
Setup
System Configurations
Channel Configurations
Event Configurations
General Settings
I/O Settings
Event Servers
Event Trigger
Recording Configurations
System Options
Apply
Cancel

SVR-116 Network Video Recorder
SEEnergy_SVR

System Time: October 28, 2008 13:02:07
User: admin

I/O Settings

	Trigger event When				Trigger Output		
	Camera		SVR-116		SVR-116		
	Port	Condition	Port	Condition	Port	State	Duration
SVR-116	------	------	------	------			0 sec (0:unlimited or 5~86400 sec)
CH 1							0 sec (0:unlimited or 5~86400 sec)
CH 2							0 sec (0:unlimited or 5~86400 sec)
CH 3							0 sec (0:unlimited or 5~86400 sec)
CH 4							0 sec (0:unlimited or 5~86400 sec)
CH 5							0 sec (0:unlimited or 5~86400 sec)

1. For cameras that come with physical digital input ports, their ports will be listed in the far left drop-down menu.
2. Pick the desired channel for I/O mapping, and then select the camera's input port from the drop-down menu.
3. Select the trigger condition from the "Condition" drop-down menu.
4. Select the recorder's input port if you would also like to use the recorder's input port for event trigger. And then select the trigger condition as well.
5. Next, select the recorder's output port and define its trigger state
6. Finally, define the trigger duration.

⚠ *The recorder does not control camera's input or output ports in a way to let you pair recorder itself with a camera's input or output port for event receiving or triggering.*

⚠ *The recorder only acts as a medium for pairing up input/output ports between cameras and the recorder.*

⚠ *Only connected cameras will be displayed in the list.*

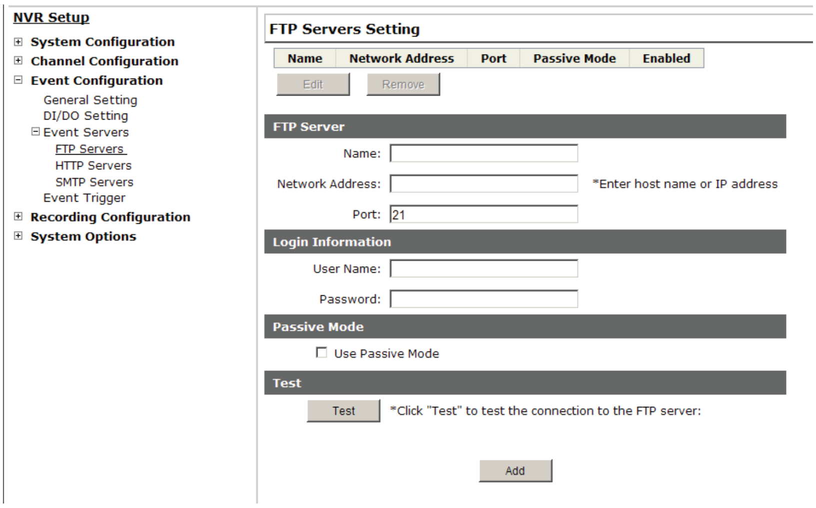
⚠ *Some cameras only allow one trigger source be configured at a time, e.g.: if the camera has the motion detection function turned on, its digital input will be disabled and vice versa. Under such circumstance, if you set to use camera's digital input port as the event trigger source, you will not be able to select motion detection as the trigger source for this camera under "Event Configurations" >> "Event Trigger" setup page.*

** The image(s) that are uploaded to the destined FTP server or emailed to a destined mail recepient are in their own proprietary image file format (.h4i or .p4i), which can only be opened by the NVR media player. For deails, please refer to page 40.*

3.3.3 Event Servers

Event servers are to be used with event trigger actions. In case of unusual motion detected by the camera or a disk failure, the recorder can send notification with the acceptable format (image/txt) to a destined event server according to the configuration.

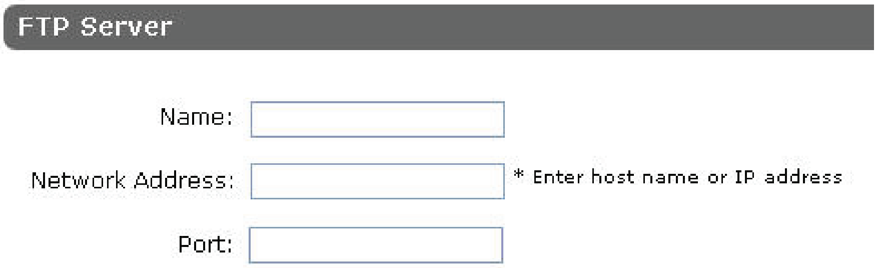
Configuring an FTP server


NVR Setup
⊞ System Configuration
⊞ Channel Configuration
⊟ Event Configuration
General Setting
DI/DO Setting
⊟ Event Servers
FTP Servers
HTTP Servers
SMTP Servers
Event Trigger
⊞ Recording Configuration
⊞ System Options
FTP Servers Setting
Name
Network Address
Port
Passive Mode
Enabled
Edit
Remove
FTP Server
Name:
Network Address:
*Enter host name or IP address
Login Information
User Name:
Password:
Passive Mode
☐ Use Passive Mode
Test
Test
*Click "Test" to test the connection to the FTP server:
Add

Port: 21

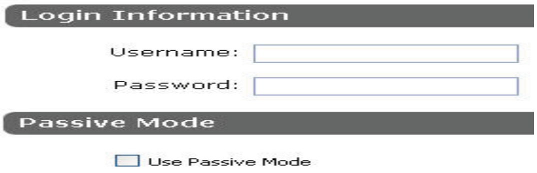
To add an FTP server,

1. Start by giving a name to the server that you are adding to the recorder
2. Enter the hostname or the IP address of the FTP server
3. Enter the communication port of the FTP server (usually port 21)


FTP Server
Name:
Network Address:
* Enter host name or IP address
Port:

4. Enter the username and password of the FTP server if it's required

5. Check "Use Passive Mode" if it's required or leave it unchecked to use active mode



Login Information

Username:

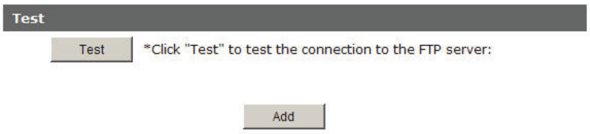
Password:

Passive Mode

☐ Use Passive Mode

6. Click "Test" to verify if all information is entered correctly and the connection to the FTP server can be established successfully

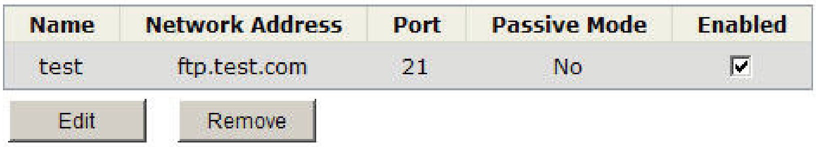
7. Click "Add" for the settings to take effect



Test

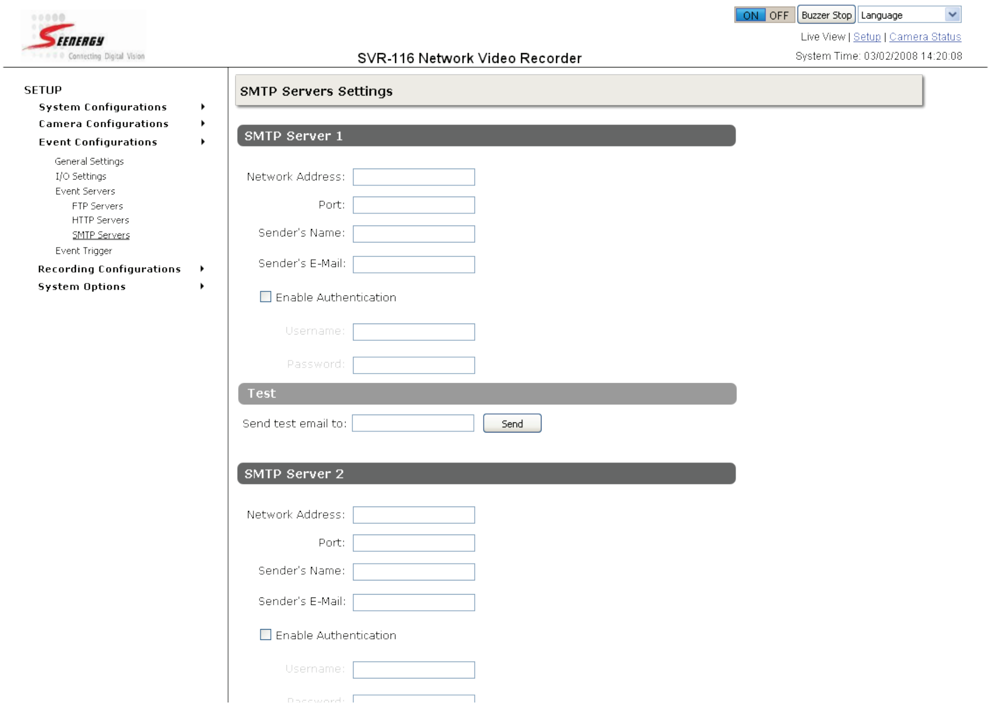
*Click "Test" to test the connection to the FTP server:

⚠ *If you wish to edit/remove/enable/disable an FTP server, click to highlight one from the profile list and choose the corresponding action button/checkbox*



Name	Network Address	Port	Passive Mode	Enabled
test	ftp.test.com	21	No	☑

Configuring an SMTP server

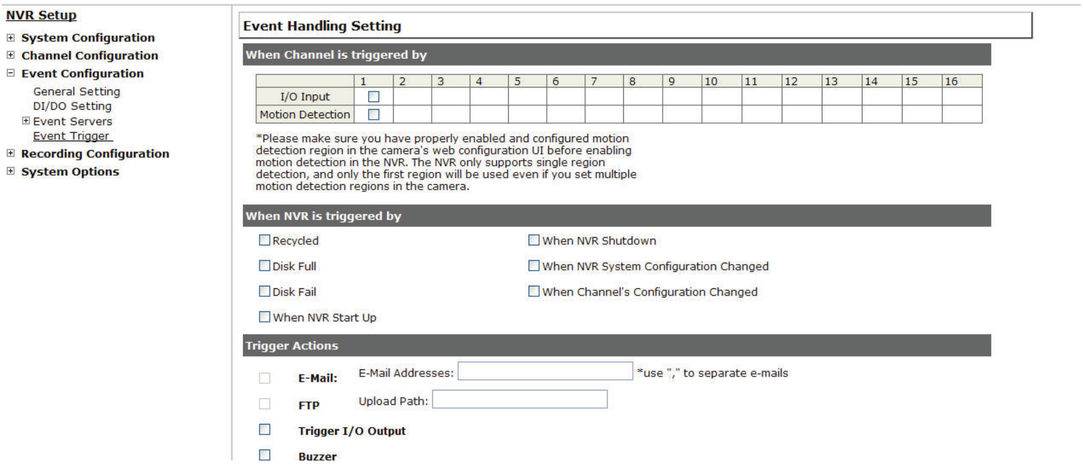

ON OFF
Buzzer Stop
Language
SEENERGY Connecting Digital Vision
SVR-116 Network Video Recorder
Live View | Setup | Camera Status
System Time: 03/02/2008 14:20:08
SETUP
System Configurations
Camera Configurations
Event Configurations
General Settings
I/O Settings
Event Servers
FTP Servers
HTTP Servers
SMTP Servers
Event Trigger
Recording Configurations
System Options
SMTP Servers Settings
SMTP Server 1
Network Address:
Port:
Sender's Name:
Sender's E-Mail:
☐ Enable Authentication
Username:
Password:
Test
Send test email to:
Send
SMTP Server 2
Network Address:
Port:
Sender's Name:
Sender's E-Mail:
☐ Enable Authentication
Username:
Password:

1. Enter the hostname or the IP address of the SMTP server
2. Enter the port of the SMTP server
3. Specify the sender's name in the "Sender's name" field
4. Enter the sender's e-mail address
5. Check "Enable Authentication" and enter the username and password of the SMTP server and as it requires authentication
6. Click "Apply" to save the configuration

3.3.4 Event Triggers

We have finished defining how an event will be triggered and which servers will be receiving notifications in the previous two sections, now we can finish up the event configuration by setting:

- which channels will have event trigger function enabled
- What is considered to be an event
- Where the warnings will be sent to and how they will be sent



NVR Setup
- ⊞ **System Configuration**
- ⊞ **Channel Configuration**
- ⊟ **Event Configuration**
  - General Setting
  - DI/DO Setting
  - ⊞ Event Servers
  - Event Trigger
- ⊞ **Recording Configuration**
- ⊞ **System Options**

Event Handling Setting

When Channel is triggered by

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
I/O Input	☐															
Motion Detection	☐															

*Please make sure you have properly enabled and configured motion detection region in the camera's web configuration UI before enabling motion detection in the NVR. The NVR only supports single region detection, and only the first region will be used even if you set multiple motion detection regions in the camera.

When NVR is triggered by

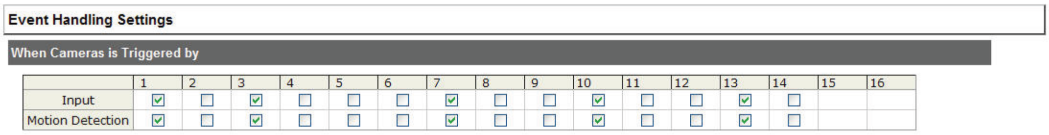
☐ Recycled
☐ Disk Full
☐ Disk Fail
☐ When NVR Start Up
☐ When NVR Shutdown
☐ When NVR System Configuration Changed
☐ When Channel's Configuration Changed

Trigger Actions

☐ **E-Mail:** E-Mail Addresses: *use "," to separate e-mails
☐ **FTP** Upload Path:
☐ **Trigger I/O Output**
☐ **Buzzer**

Select Channels to Enable Event Trigger and which type of event should be triggered

- Use the checkbox to enable event trigger on the desired channels



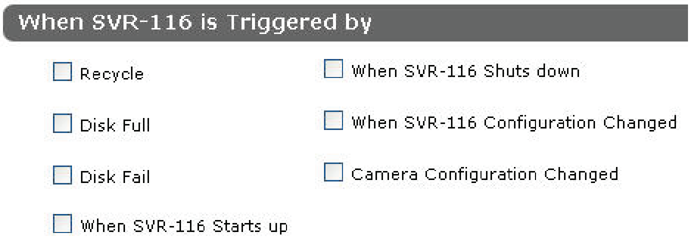
Event Handling Settings

When Cameras is Triggered by

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Input	☑	☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐		
Motion Detection	☑	☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐		

** Once motion detection is enabled in this page, please configure the motion area and enable motion detection in the corresponding channels (cameras). The NVR only detects the first motion area set in the camera. The NVR recognizes the first motion area by its ID number set in the camera.*

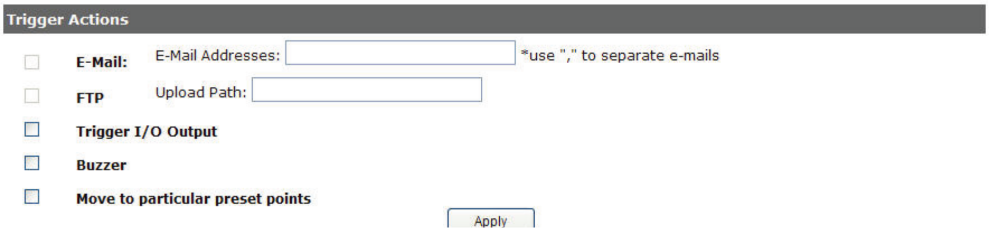
- Define which system events should trigger the recorder to send out notifications



When SVR-116 is Triggered by

☐ Recycle
☐ Disk Full
☐ Disk Fail
☐ When SVR-116 Starts up
☐ When SVR-116 Shuts down
☐ When SVR-116 Configuration Changed
☐ Camera Configuration Changed

- Define how the notifications will be sent and where they will be sent to



Trigger Actions

☐ **E-Mail:** E-Mail Addresses: *use "," to separate e-mails
☐ **FTP** Upload Path:
☐ **Trigger I/O Output**
☐ **Buzzer**
☐ **Move to particular preset points**

** Event trigger may not work for cameras that are placed outside of your local network or on the Internet until the "UPnP Port Forwarding" is enabled in both the NVR and the router.*

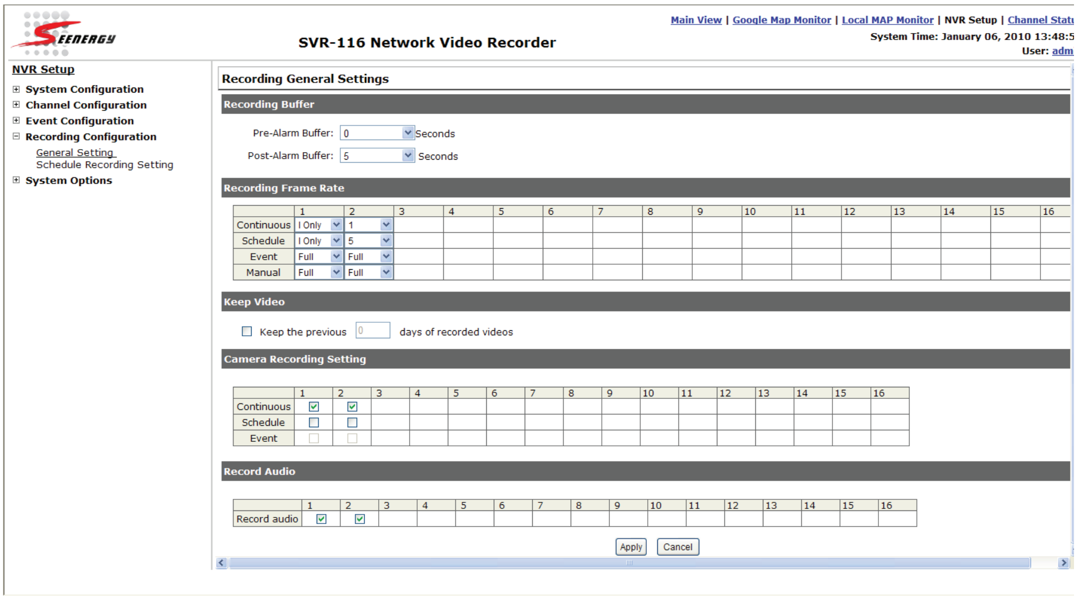
3.4 Recording Configurations

The "recording configurations" gives users the overall control of how and when a recording is performed and the quality of different types of recordings performed on each channels. It can help the recorder to operate with sufficient system resource by performing recording only when it's necessary with adjustable recording frame rate.

3.4.1 General Settings

You can define the following in "General Settings":

- Pre-Alarm/Post-Alarm recording length
- Recording frame rate
- Enable/disable different recording types on different cameras
- Enable/disable audio recording


SEENERGY
SVR-116 Network Video Recorder
Main View | Google Map Monitor | Local MAP Monitor | NVR Setup | Channel Statu
NVR Setup
System Configuration
Channel Configuration
Event Configuration
Recording Configuration
General Setting
Schedule Recording Setting
System Options
Apply
Cancel

System Time: January 06, 2010 13:48:5
User: adm

Recording General Settings

Recording Buffer

Pre-Alarm Buffer: 0 Seconds
Post-Alarm Buffer: 5 Seconds

Recording Frame Rate

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	I Only	1														
Schedule	I Only	5														
Event	Full	Full														
Manual	Full	Full														

Keep Video

☐ Keep the previous 0 days of recorded videos

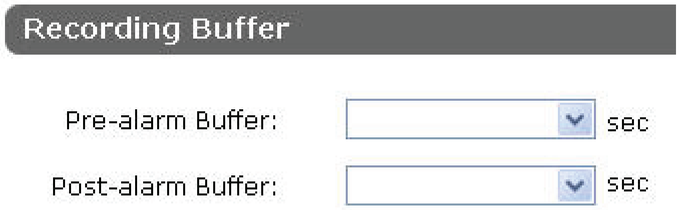
Camera Recording Setting

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	☑	☑														
Schedule	☐	☐														
Event	☐	☐														

Record Audio

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Record audio	☑	☑														

The "recording buffer" allows user to define "pre-alarm" and "post-alarm" time for event recordings. The "pre-alarm" time sets the NVR to record in advance when an event is triggered. The "post-alarm" time sets the NVR to continue recording for a period of time after an event trigger is finished.



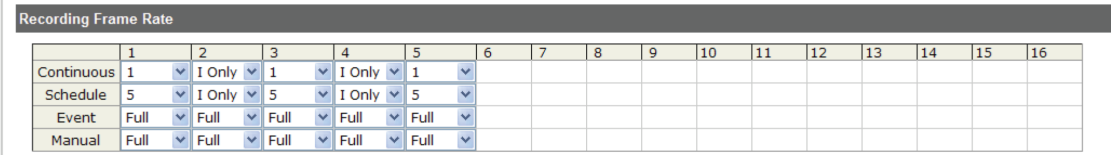
Recording Buffer

Pre-alarm Buffer: sec

Post-alarm Buffer: sec

** The "Pre-alarm" function only works when the "Continuous" recording is also activated.*

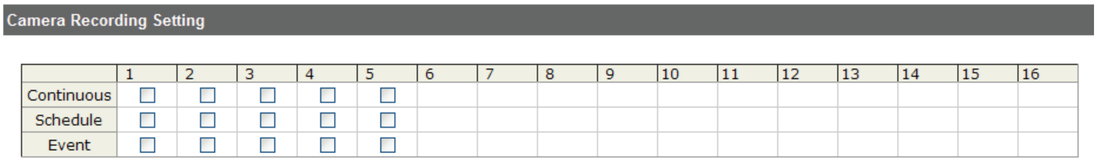
Recording frame rate allows you to set different frame rate for different types of recording instead of recording at one frame rate only. Use the drop-down menu and select one of the pre-defined frame rates for a particular recording type



Recording Frame Rate

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	1	I Only	1	I Only	1											
Schedule	5	I Only	5	I Only	5											
Event	Full	Full	Full	Full	Full											
Manual	Full	Full	Full	Full	Full											

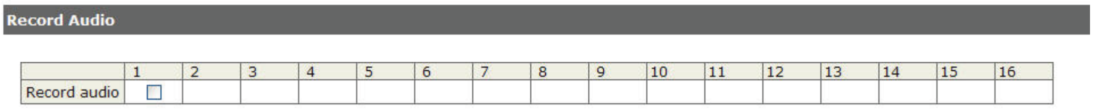
The "Camera Recording Setting" section allows you to turn on or off a particular recording type on any channels.



Camera Recording Setting

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	☐	☐	☐	☐	☐											
Schedule	☐	☐	☐	☐	☐											
Event	☐	☐	☐	☐	☐											

The section at the bottom of the page allows you to disable audio recording (record video only) of particular channels.

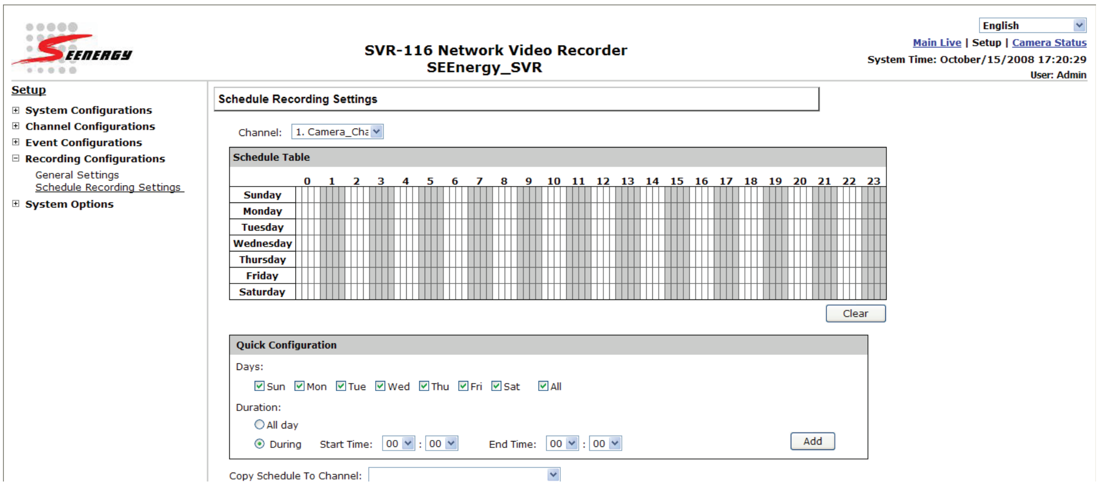


Record Audio

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Record audio	☐															

3.4.2 Schedule Recording

Here you can define the time range of the schedule recording for all channels.


SEENERGY
SVR-116 Network Video Recorder
SEEnergy_SVR
English
Main Live | Setup | Camera Status
Setup
System Configurations
Channel Configurations
Event Configurations
Recording Configurations
General Settings
Schedule Recording Settings
System Options
Schedule Recording Settings
Schedule Table
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Clear
Quick Configuration
Days:
Duration:
Add
Copy Schedule To Channel:

System Time: October/15/2008 17:20:29
User: Admin

Channel: 1. Camera_Cha

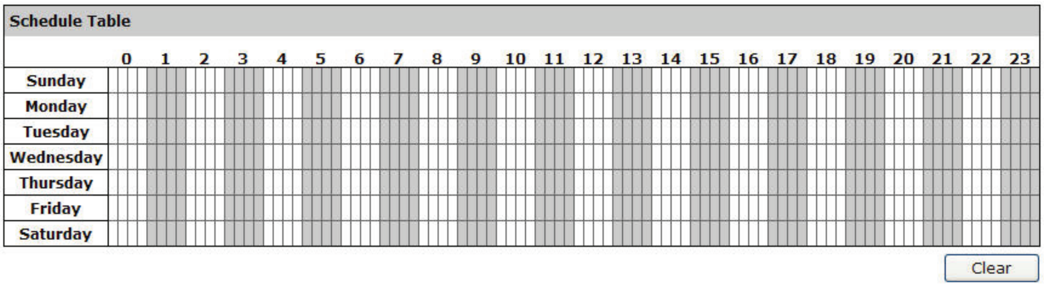
☑Sun ☑Mon ☑Tue ☑Wed ☑Thu ☑Fri ☑Sat ☑All

○All day
● During Start Time: 00 : 00 End Time: 00 : 00

To configure a schedule recording:

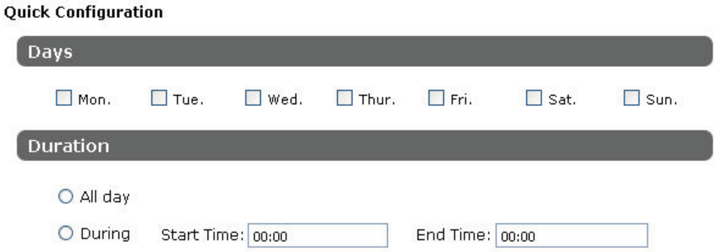
1. Use the "Channel" drop-down menu and select a camera first

2. You can use the schedule table to set the time range. Click the cell boxes then move horizontally lets you set what hours to perform recording during a day. Click and move vertically lets you set what days to perform recording at a specific time.


Schedule Table
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Clear

** Each cell box represents 15 minutes of time. Click one or more boxes to omit consecutive recording*

3. You can also use the "Quick Configuration" to define recording time range instead of clicking cell boxex one by one on the time table. Simply check what days you would like to perform recording and specify the recording duration by either choosing "All Day" or enter a start and end time for specific recording duration.



Quick Configuration

Days

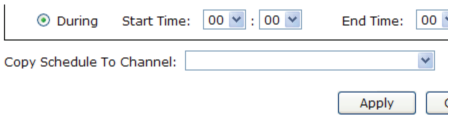
☐ Mon. ☐ Tue. ☐ Wed. ☐ Thur. ☐ Fri. ☐ Sat. ☐ Sun.

Duration

○ All day

○ During Start Time: 00:00 End Time: 00:00

4. Select the "Copy to" option if you would like to set the same recording schedule to another camera.



● During Start Time: 00 : 00 End Time: 00

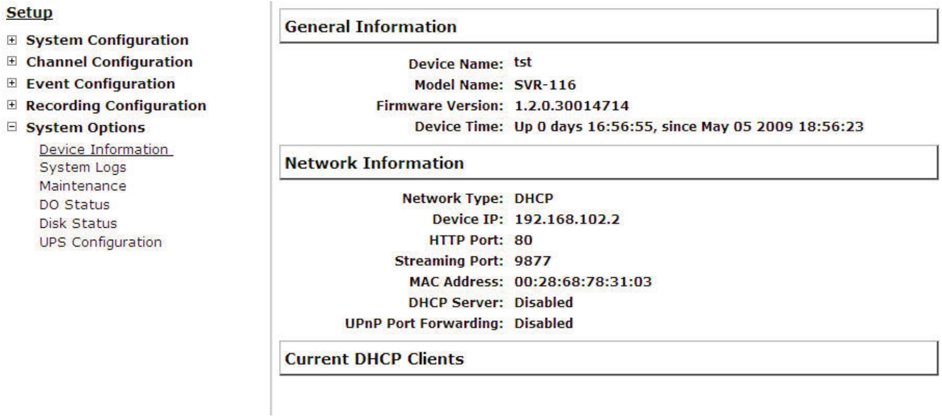
Copy Schedule To Channel:

3.5 System Options

System Options gives users a glance of the overall system status and allows users to perform maintenance tasks such as upgrading firmware, restore/backup device settings or reboot device ….etc.

3.5.1 Device Information

The "Device Information" provides the general information of the device such as firmware version and system time. It also provides information of the current network settings and status.


Setup
⊞ System Configuration
⊞ Channel Configuration
⊞ Event Configuration
⊞ Recording Configuration
⊟ System Options
Device Information
System Logs
Maintenance
DO Status
Disk Status
UPS Configuration

General Information

Device Name: tst
Model Name: SVR-116
Firmware Version: 1.2.0.30014714
Device Time: Up 0 days 16:56:55, since May 05 2009 18:56:23

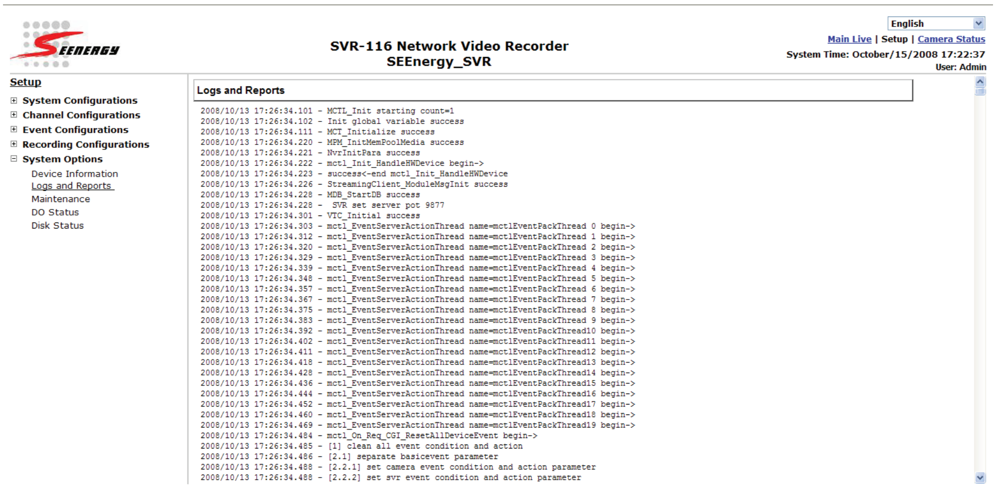
Network Information

Network Type: DHCP
Device IP: 192.168.102.2
HTTP Port: 80
Streaming Port: 9877
MAC Address: 00:28:68:78:31:03
DHCP Server: Disabled
UPnP Port Forwarding: Disabled

Current DHCP Clients

3.5.2 Logs and Reports

“Logs and Reports” keeps a record of what’s been happening to the device and provides basic information for troubleshooting


English
Main Live | Setup | Camera Status
Setup
System Configurations
Channel Configurations
Event Configurations
Recording Configurations
System Options
Device Information
Logs and Reports
Maintenance
DO Status
Disk Status

SVR-116 Network Video Recorder
SEEnergy_SVR

System Time: October/15/2008 17:22:37
User: Admin

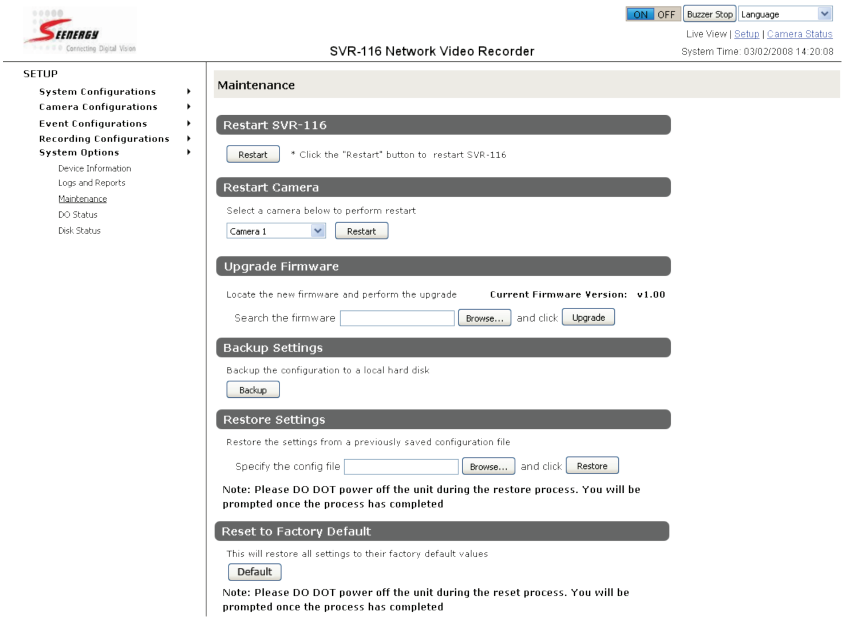
Logs and Reports

```
2008/10/13 17:26:34.101 - MCTL_Init starting count=1
2008/10/13 17:26:34.102 - Init global variable success
2008/10/13 17:26:34.111 - MCT_Initialize success
2008/10/13 17:26:34.220 - MPM_InitMemPoolMedia success
2008/10/13 17:26:34.221 - NvrInitPara success
2008/10/13 17:26:34.222 - mctl_Init_HandleHWDevice begin->
2008/10/13 17:26:34.223 - success<-end mctl_Init_HandleHWDevice
2008/10/13 17:26:34.226 - StreamingClient_ModuleMsgInit success
2008/10/13 17:26:34.228 - MDB_StartDB success
2008/10/13 17:26:34.228 -  SVR set server pot 9877
2008/10/13 17:26:34.301 - VTC_Initial success
2008/10/13 17:26:34.303 - mctl_EventServerActionThread name=mctlEventPackThread 0 begin->
2008/10/13 17:26:34.312 - mctl_EventServerActionThread name=mctlEventPackThread 1 begin->
2008/10/13 17:26:34.320 - mctl_EventServerActionThread name=mctlEventPackThread 2 begin->
2008/10/13 17:26:34.329 - mctl_EventServerActionThread name=mctlEventPackThread 3 begin->
2008/10/13 17:26:34.339 - mctl_EventServerActionThread name=mctlEventPackThread 4 begin->
2008/10/13 17:26:34.348 - mctl_EventServerActionThread name=mctlEventPackThread 5 begin->
2008/10/13 17:26:34.357 - mctl_EventServerActionThread name=mctlEventPackThread 6 begin->
2008/10/13 17:26:34.367 - mctl_EventServerActionThread name=mctlEventPackThread 7 begin->
2008/10/13 17:26:34.375 - mctl_EventServerActionThread name=mctlEventPackThread 8 begin->
2008/10/13 17:26:34.383 - mctl_EventServerActionThread name=mctlEventPackThread 9 begin->
2008/10/13 17:26:34.392 - mctl_EventServerActionThread name=mctlEventPackThread10 begin->
2008/10/13 17:26:34.402 - mctl_EventServerActionThread name=mctlEventPackThread11 begin->
2008/10/13 17:26:34.411 - mctl_EventServerActionThread name=mctlEventPackThread12 begin->
2008/10/13 17:26:34.418 - mctl_EventServerActionThread name=mctlEventPackThread13 begin->
2008/10/13 17:26:34.428 - mctl_EventServerActionThread name=mctlEventPackThread14 begin->
2008/10/13 17:26:34.436 - mctl_EventServerActionThread name=mctlEventPackThread15 begin->
2008/10/13 17:26:34.444 - mctl_EventServerActionThread name=mctlEventPackThread16 begin->
2008/10/13 17:26:34.452 - mctl_EventServerActionThread name=mctlEventPackThread17 begin->
2008/10/13 17:26:34.460 - mctl_EventServerActionThread name=mctlEventPackThread18 begin->
2008/10/13 17:26:34.469 - mctl_EventServerActionThread name=mctlEventPackThread19 begin->
2008/10/13 17:26:34.484 - mctl_On_Req_CGI_ResetAllDeviceEvent begin->
2008/10/13 17:26:34.485 - [1] clean all event condition and action
2008/10/13 17:26:34.486 - [2.1] separate basicevent parameter
2008/10/13 17:26:34.488 - [2.2.1] set camera event condition and action parameter
2008/10/13 17:26:34.488 - [2.2.2] set svr event condition and action parameter
```

3.5.3 Maintenance

“Maintenance” provides functions for users to:

- Reboot the NVR when necessary
- Reboot cameras directly from the NVR
- Perform Firmware Upgrade
- Backup the NVR’s settings to a local hard drive
- Restore the NVR’s settings from a previously saved configuration file
- Reset the NVR’s settings to their factory default values


ON OFF
Buzzer Stop
Language
Live View | Setup | Camera Status
SETUP
System Configurations
Camera Configurations
Event Configurations
Recording Configurations
System Options
Device Information
Logs and Reports
Maintenance
DO Status
Disk Status
Restart
Camera 1
Restart
Browse...
Upgrade
Backup
Browse...
Restore
Default

SVR-116 Network Video Recorder

System Time: 03/02/2008 14:20:08

Maintenance

Restart SVR-116

* Click the "Restart" button to restart SVR-116

Restart Camera

Select a camera below to perform restart

Upgrade Firmware

Locate the new firmware and perform the upgrade **Current Firmware Version: v1.00**

Search the firmware and click

Backup Settings

Backup the configuration to a local hard disk

Restore Settings

Restore the settings from a previously saved configuration file

Specify the config file and click

Note: Please DO DOT power off the unit during the restore process. You will be prompted once the process has completed

Reset to Factory Default

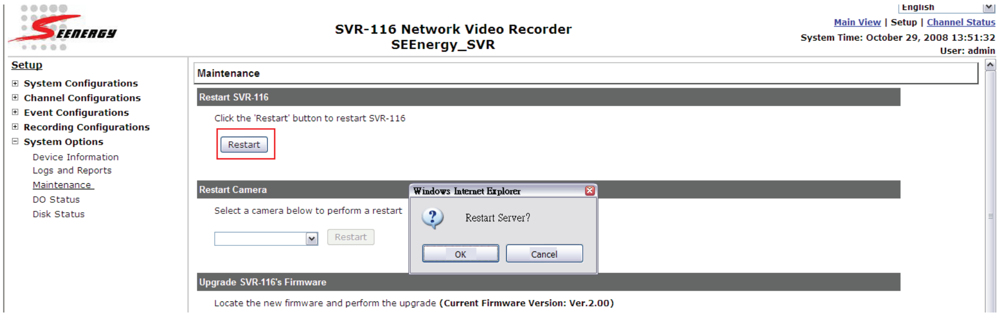
This will restore all settings to their factory default values

Note: Please DO DOT power off the unit during the reset process. You will be prompted once the process has completed

Reboot the NVR

Reboot the NVR after you upload a new firmware. You would need to manually reboot the system for the new firmware to take effect. Such process would prevent a recording from getting interrupted because the system would not automatically reboot itself after the new firmware is loaded onto the recorder.

Simply click "Restart" to begin the reboot process and confirm the action:


SEENERGY
English
Main View | Setup | Channel Status
Setup
System Configurations
Channel Configurations
Event Configurations
Recording Configurations
System Options
Device Information
Logs and Reports
Maintenance
DO Status
Disk Status
Maintenance
Restart SVR-116
Restart
Restart Camera
Restart
Upgrade SVR-116's Firmware
Windows Internet Explorer
OK
Cancel

SVR-116 Network Video Recorder
SEEnergy_SVR

System Time: October 29, 2008 13:51:32
User: admin

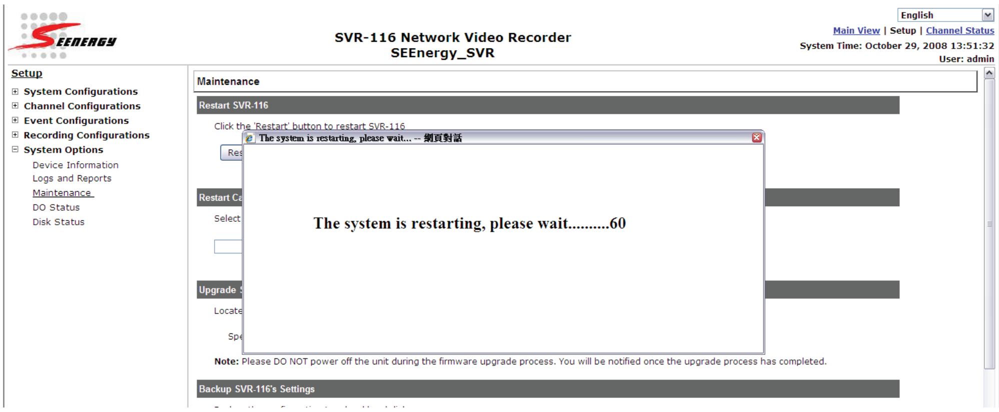
Click the 'Restart' button to restart SVR-116

Select a camera below to perform a restart

Restart Server?

Locate the new firmware and perform the upgrade **(Current Firmware Version: Ver.2.00)**

The restart process should be displayed and you should be prompted back to the "Maintenance" page after it is complete:


SEENERGY
English
Main View | Setup | Channel Status
Setup
System Configurations
Channel Configurations
Event Configurations
Recording Configurations
System Options
Device Information
Logs and Reports
Maintenance
DO Status
Disk Status
Maintenance
Restart SVR-116
Restart Ca
Upgrade
Backup SVR-116's Settings

SVR-116 Network Video Recorder
SEEnergy_SVR

System Time: October 29, 2008 13:51:32
User: admin

Click the 'Restart' button to restart SVR-116

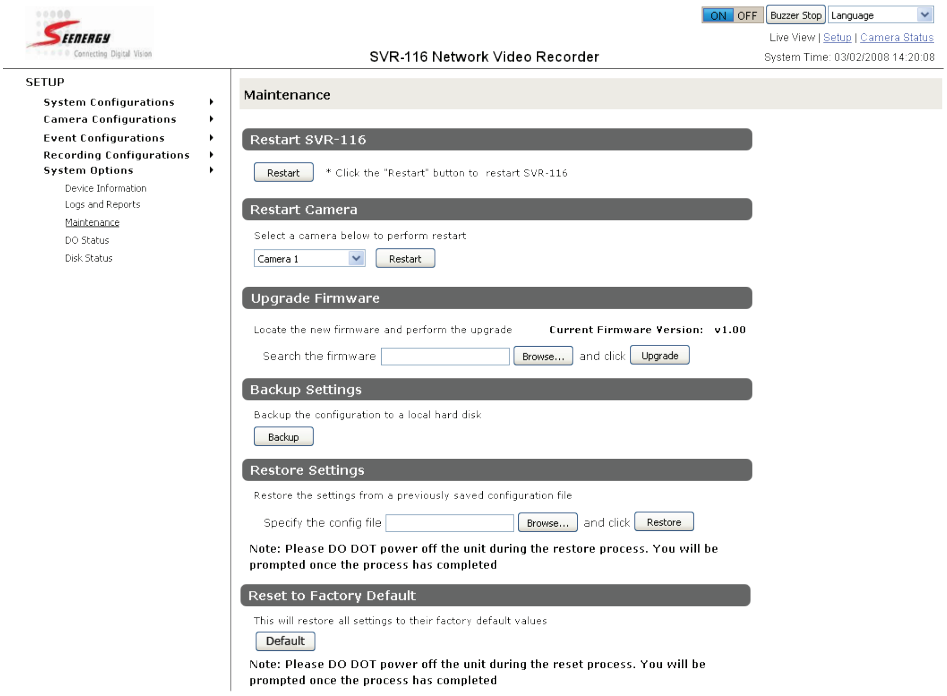
The system is restarting, please wait... -- 網頁對話

The system is restarting, please wait..........60

Note: Please DO NOT power off the unit during the firmware upgrade process. You will be notified once the upgrade process has completed.

Reset the NVR to Factory Default

To reset the recorder back to its factory default, click "Default" button and begin the proces:


ON OFF
Buzzer Stop
Language
Live View | Setup | Camera Status
SETUP
System Configurations
Camera Configurations
Event Configurations
Recording Configurations
System Options
Device Information
Logs and Reports
Maintenance
DO Status
Disk Status
Restart
Camera 1
Restart
Browse...
Upgrade
Backup
Browse...
Restore
Default

SVR-116 Network Video Recorder

System Time: 03/02/2008 14:20:08

Maintenance

Restart SVR-116

* Click the "Restart" button to restart SVR-116

Restart Camera

Select a camera below to perform restart

Upgrade Firmware

Locate the new firmware and perform the upgrade **Current Firmware Version: v1.00**

Search the firmware and click

Backup Settings

Backup the configuration to a local hard disk

Restore Settings

Restore the settings from a previously saved configuration file

Specify the config file and click

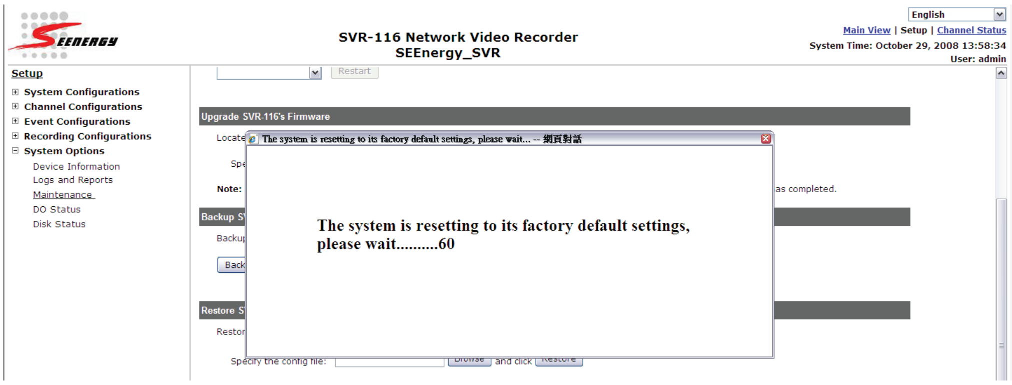
Note: Please DO DOT power off the unit during the restore process. You will be prompted once the process has completed

Reset to Factory Default

This will restore all settings to their factory default values

Note: Please DO DOT power off the unit during the reset process. You will be prompted once the process has completed

The process should be displayed and you should be prompted back to the "Live View" page after it is complete:


English
Main View | Setup | Channel Status
Setup
System Configurations
Channel Configurations
Event Configurations
Recording Configurations
System Options
Device Information
Logs and Reports
Maintenance
DO Status
Disk Status
Restart
Browse
Restore

SVR-116 Network Video Recorder
SEEnergy_SVR

System Time: October 29, 2008 13:58:34
User: admin

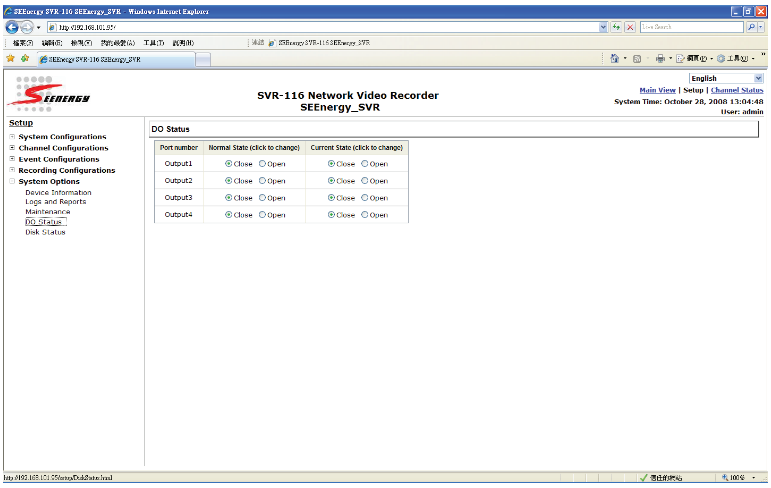
Upgrade SVR-116's Firmware

The system is resetting to its factory default settings, please wait... -- 網頁對話

The system is resetting to its factory default settings,
please wait..........60

3.5.4 DO Status

This is where you can get the current status of the SVR-116 digital output ports. You can also change their status from this page.



SEEnergy SVR-116 SEEnergy_SVR - Windows Internet Explorer
http://192.168.101.95/
Live Search
檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)
連結 SEEnergy SVR-116 SEEnergy_SVR
SEEnergy SVR-116 SEEnergy_SVR
網頁(P) 工具(O)
SEENERGY
English
Main View | Setup | Channel Status
Setup
System Configurations
Channel Configurations
Event Configurations
Recording Configurations
System Options
Device Information
Logs and Reports
Maintenance
DO Status
Disk Status
http://192.168.101.95/setup/DiskStatus.html
信任的網站
100%

SVR-116 Network Video Recorder
SEEnergy_SVR

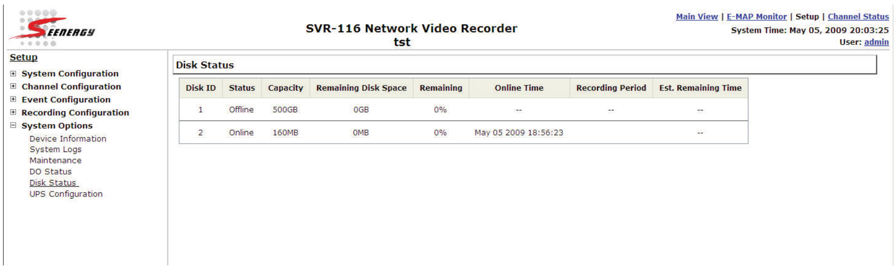
System Time: October 28, 2008 13:04:48
User: admin

DO Status

Port number	Normal State (click to change)	Current State (click to change)
Output1	● Close ○ Open	● Close ○ Open
Output2	● Close ○ Open	● Close ○ Open
Output3	● Close ○ Open	● Close ○ Open
Output4	● Close ○ Open	● Close ○ Open

3.5.5 Disk Status

"Disk Status" gives you a more detailed information of the hard drive that is currently installed in the NVR.



SEENERGY
Main View | E-MAP Monitor | Setup | Channel Status
Setup
System Configuration
Channel Configuration
Event Configuration
Recording Configuration
System Options
Device Information
System Logs
Maintenance
DO Status
Disk Status
UPS Configuration

SVR-116 Network Video Recorder
tst

System Time: May 05, 2009 20:03:25
User: admin

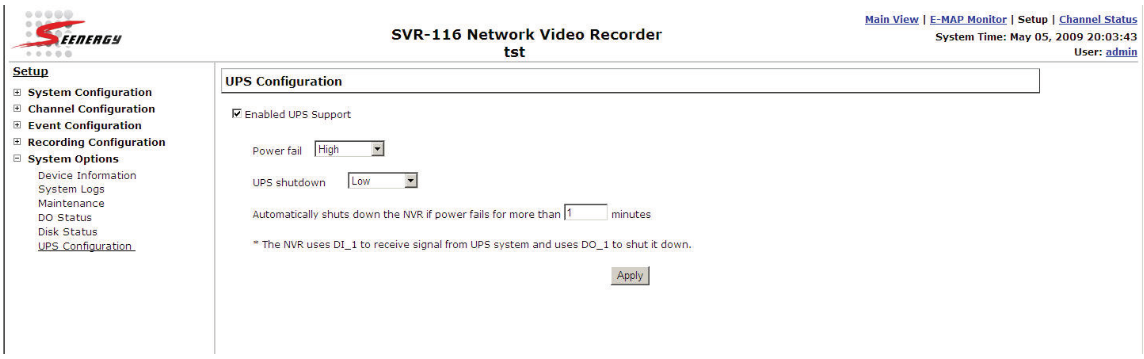
Disk Status

Disk ID	Status	Capacity	Remaining Disk Space	Remaining	Online Time	Recording Period	Est. Remaining Time
1	Offline	500GB	0GB	0%	--	--	--
2	Online	160MB	0MB	0%	May 05 2009 18:56:23		--

3.5.6 UPS Configuration

Connect the UPS to the NVR's DI/DO port for sending and receiving signals between the UPS and the NVR. Refer to the diagram below to connect the UPS with its RS-232 interface to the NVR's DI/DO port.

The NVR can receive signal from the UPS when there is a power failure and shut down itself automatically within a period of time.


SEENERGY
SVR-116 Network Video Recorder
tst
Main View | E-MAP Monitor | Setup | Channel Status
Setup
⊞ System Configuration
⊞ Channel Configuration
⊞ Event Configuration
⊞ Recording Configuration
⊟ System Options
Device Information
System Logs
Maintenance
DO Status
Disk Status
UPS Configuration
UPS Configuration
Apply

System Time: May 05, 2009 20:03:43
User: admin

☑ Enabled UPS Support

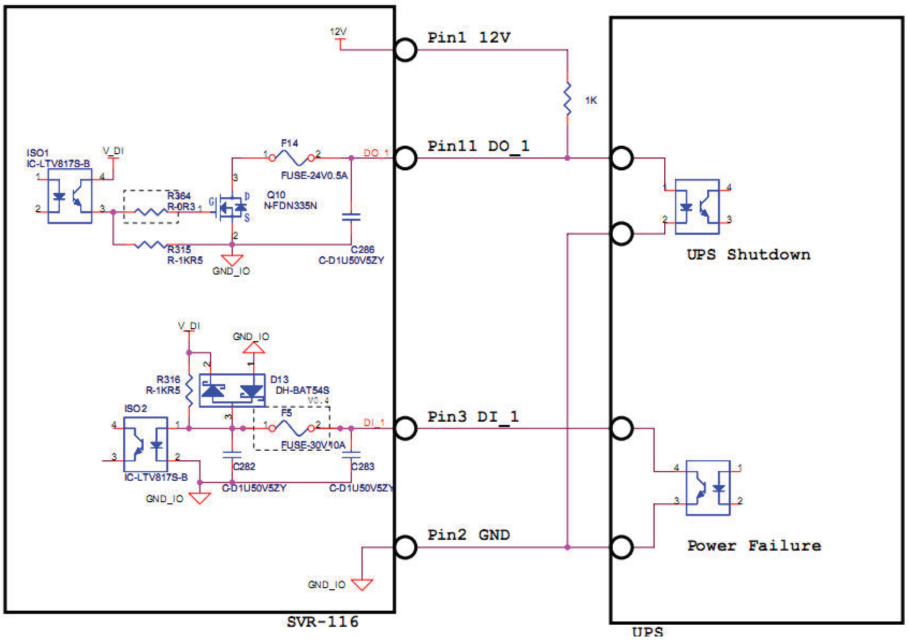
Power fail: High

UPS shutdown: Low

Automatically shuts down the NVR if power fails for more than 1 minutes

* The NVR uses DI_1 to receive signal from UPS system and uses DO_1 to shut it down.

Connect UPS with its RS-232 interface to the NVR's IO port:


12V
Pin1 12V
1K
Pin11 DO_1
ISO1
IC-LTV817S-B
V_DI
F14
FUSE-24V0.5A
DO_1
R364
R-0R3
Q10
N-FDN335N
R315
R-1KR5
GND_IO
C286
C-D1U50V5ZY
UPS Shutdown
V_DI
GND_IO
R316
R-1KR5
D13
DH-BAT54S
V0.4
ISO2
F5
FUSE-30V10A
DI_1
Pin3 DI_1
C282
C283
IC-LTV817S-B
C-D1U50V5ZY
C-D1U50V5ZY
GND_IO
Power Failure
Pin2 GND
GND_IO
SVR-116
UPS

**** The NVR uses DI_1 to receive signal from UPS system and uses DO_1 to shut it down.***

EN/MV15/01272010/001

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SEENERGY

Connecting Digital Vision

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